

**TRANSMITTAL OF MEETING HANDOUT MATERIALS FOR
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Do not include proprietary materials.*

DATE OF MEETING

10/1/03

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)

50-346

Plant/Facility Name

DAVIS - BESSE

TAC Number(s) (if available)

Reference Meeting Notice

2003-0725

Purpose of Meeting
(copy from meeting notice)

DISCUSS LICENSEE'S LONG-TERM PLANS
TO ADDRESS SAFETY CONSCIOUS WORK
ENVIRONMENT AND ORGANIZATIONAL
EFFECTIVENESS.

NAME OF PERSON WHO ISSUED MEETING NOTICE

CHRISTINE LIPA

TITLE

BRANCH CHIEF

OFFICE

REGION III

DIVISION

DRP

BRANCH

4

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Docket File/Central File
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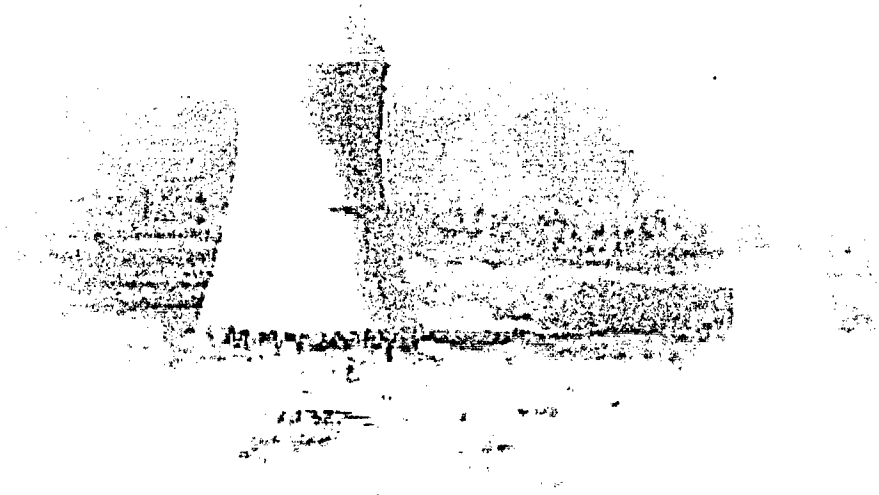
DFOI

Davis-Besse Nuclear Power Station



Organizational Effectiveness

Opening Comments



Gary Leidich

President and Chief Nuclear Officer - FENOC

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Agenda

Opening Remarks.....	Gary Leidich
•Safety Culture: Definition/Model/Process/Results/Actions Taken/Effectiveness To Date.....	Lew Myers
•Oversight Perspectives on Safety Culture Effectiveness	Fred Von Ahn
•Remaining Organizational Actions.....	Mark Bezilla
•Long-Term Organizational Effectiveness Vision...	Gary Leidich
•Long Term-Improvement Plan.....	Randy Fast
•Barriers Demonstrating FENOC's Strong Safety Focus.....	Lew Myers
Closing Remarks.....	Lew Myers/Gary Leidich

Desired Outcomes

- Demonstrate that we have built an Organization with a proactive safety culture that is 'Built to Last'
- Provide an understanding of the key elements of our safety culture
 - Safety Culture Model
 - Process/Results
 - Actions taken to date
 - Effectiveness of actions
 - Long-term plans

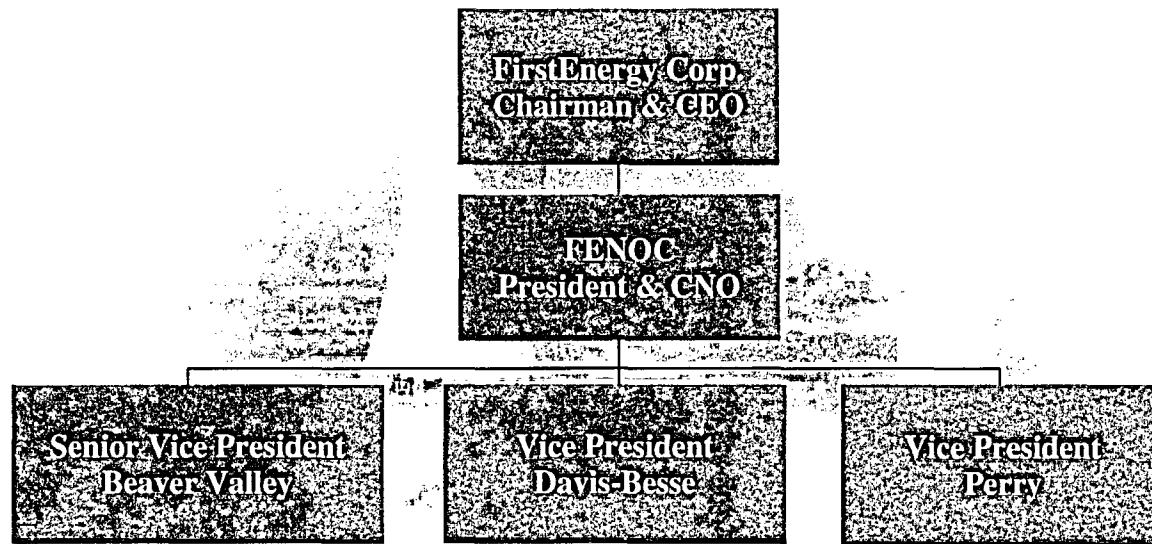
FirstEnergy is Committed to Nuclear Safety

- Chairman and Chief Executive Officer Commitment to Nuclear Safety
- FirstEnergy Board of Directors Resolution
- FENOC Commitment to Safety Culture
 - Corporate and Policy Level Commitments
 - Management Commitments
 - Individual Commitments

‘Built to Last’ Commitment

- FENOC has built an enduring organization rooted in and consistently aligned at all levels to the core values of safe and reliable operation of Davis-Besse
 - Continuous indoctrination of employees in these core values
 - Nurturing and selecting senior management based on a fit with these core values
 - Consistent alignment with these core values in goal-setting, problem-solving, and decision-making
 - Preserving these core values while driving continuous improvement
 - A strong safety focus resolve

Previous Organization

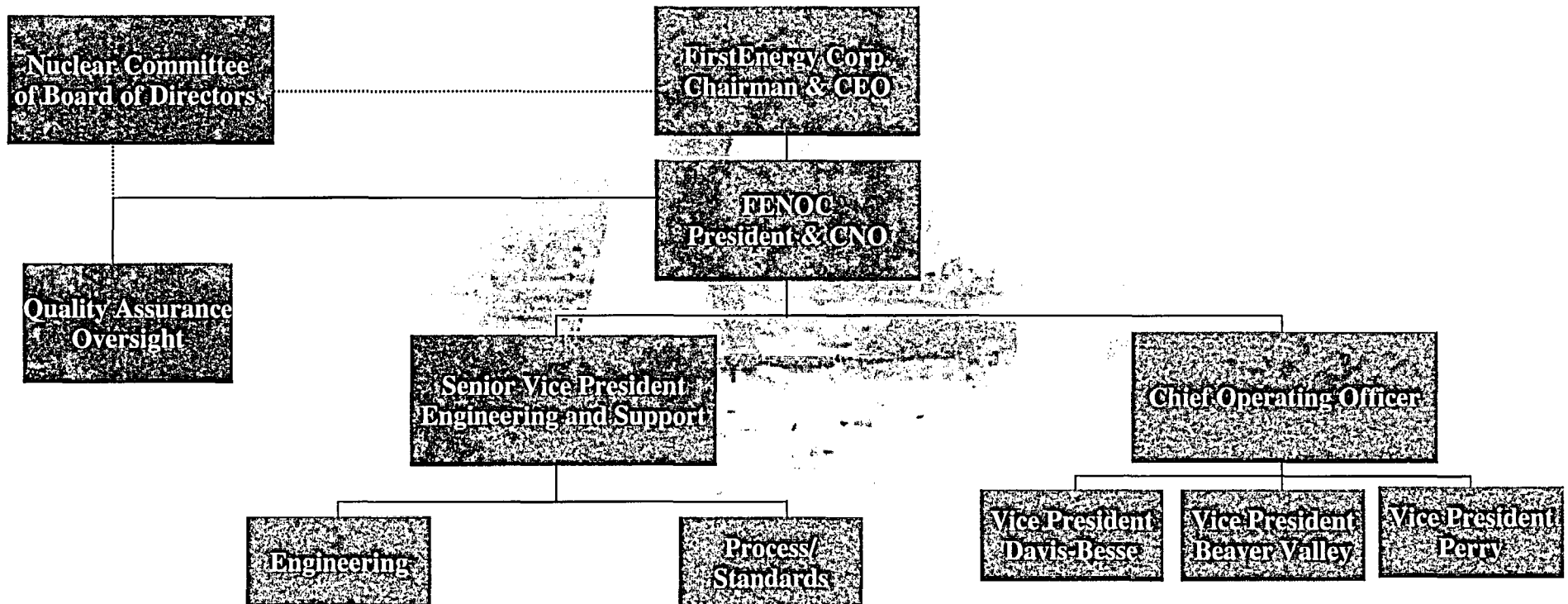


Previous Organization

- Potential Pitfalls

- Allowed isolationism and individual plant organizations
- Differences in management processes went unchecked
- Corrective Action Program weaknesses
- Differences in cultures
- Resistance to Industry Standards
- Allowed oversight to become part of the problem

Present Organization



Present Organization

- Advantages

- Common Processes/ Industry Best Practices
- Strong Corporate Governance
- Independent Quality Oversight
- Chief Operating Officer is responsible for consistent implementation
- Senior Vice President Engineering is responsible for development

Present Organization

- Organization is in place to ensure strong safety focus and facilitate top fleet performance

Safety Culture

⇓ **Definition**

⇓ **Model**

⇓ **Process**

⇓ **Results**

⇓ **Actions Taken to Date**

⇓ **Effectiveness To Date**

Lew Myers

Chief Operating Officer - FENOC

Definitions

Safety Culture

That assembly of characteristics and attitudes in organizations and individuals which establishes an overriding priority towards nuclear safety activities and ensures that issues receive the attention warranted by their significance

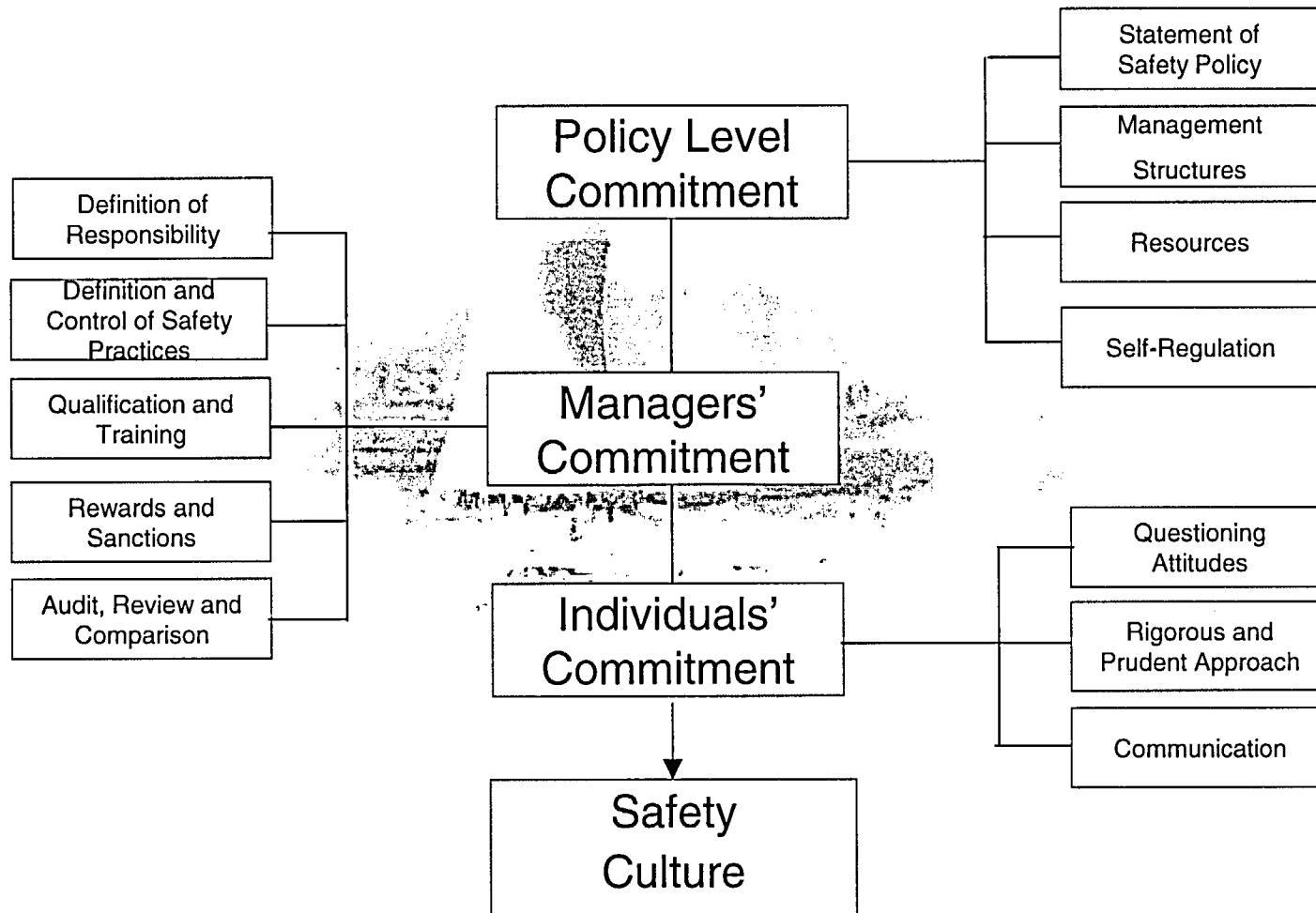
Safety Conscious Work Environment

An environment in which personnel are encouraged to identify problems, are confident that problems will be effectively evaluated and corrected, and are protected from any form of retaliation

Safety Culture Model

- Original Safety Culture Model Sources
 - International Atomic Energy Agency, INSAG-4, “Safety Culture”
 - INSAG-13, “Management of Operational Safety in Nuclear Power Plants”
 - Dr. S.B. Haber - Performance, Safety, and Health Associates

Safety Culture - IAEA Model

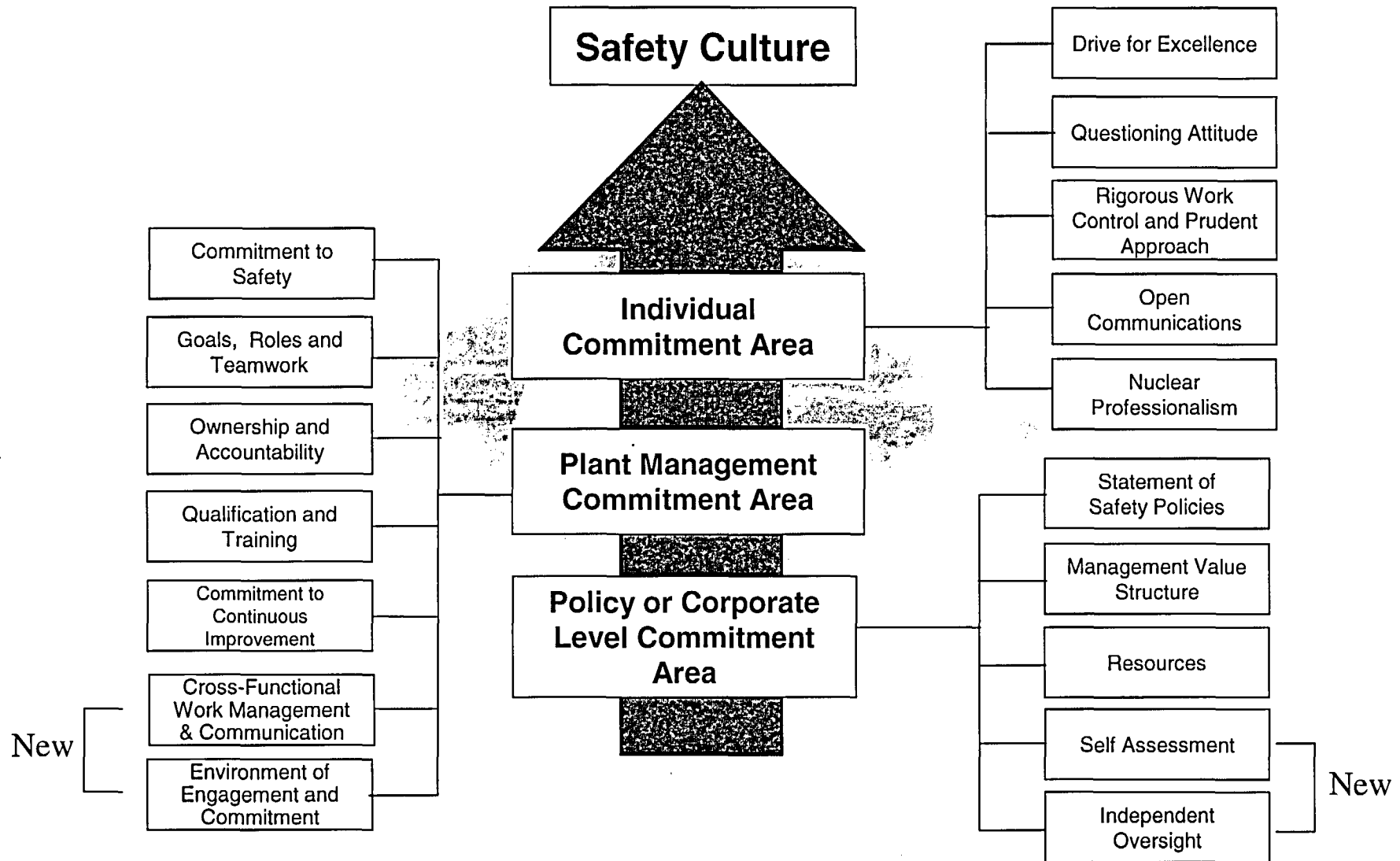


Source: International Atomic Energy Agency - INSAG-4, Safety Culture

Safety Culture - Model Development

Organizational Behaviors Impacting Safety Culture																											
CRITERIA	Attn to Safety	Coor of Work	Decision Mkg	External Comm	Formalization	Goal Set/Prior	Interdept Comm	Intradept Comm	Org'l Culture	Org'l Learning	Org'l Knowl.	Perf. Eval.	Perf. Quality	Person'l Select	Prob. Identif.	Res. Allocatn	Roles & Resp.	Time Urgency	Training	Constr. Values	Drive-Perfctn	Org'l Commit.	Job Satisfactn	Min. Avoidnc	OpnEffecCom	Questg Attit.	Wrk Grp Cohes
Policy/Corp Commitment Area																											
1.a. Policies/Core Value	X				X																						
1.b. Mgt values in Bus Plan	X				X	X																					
1.c. Resources are available													X			X											
1.d. Self-Assessment Tool												X															
1.e. Indep. Oversight Tool	X											X															
Plant Mgt Commitment Area																											
2.a. Visible Commit to Safety	X		X		X							X			X	X			X						X		
2.b. Goals/Roles/Intrad.Tmwnk	X	X			X	X		X				X					X								X		X
2.c. Ownership/Accountability	X				X				X	X		X				X	X	X						X		X	
2.d. Trg. & Quals valued												X	X					X	X								
2.e. Commitment to Cont. Impr.	X				X				X	X		X	X			X		X	X								
2.f Cross-func.work mgt/comm		X	X				X			X								X									
2.g. Envir. of Engagemt/Commit									X			X	X							X		X	X	X	X		
Individual Commitment Area																											
3.a. Drive for Excellence	X									X		X	X		X			X			X	X					
3.b. Questioning Attitude	X												X				X							X		X	
3.c. Rigorous WC/prudent approach	X	X			X							X	X					X			X						
3.d. Open Comm-voice concerns	X				X		X		X				X											X	X	X	
3.e. Nuclear Professionalism	X				X				X	X			X		X			X			X	X		X	X	X	

Safety Culture - FENOC Model



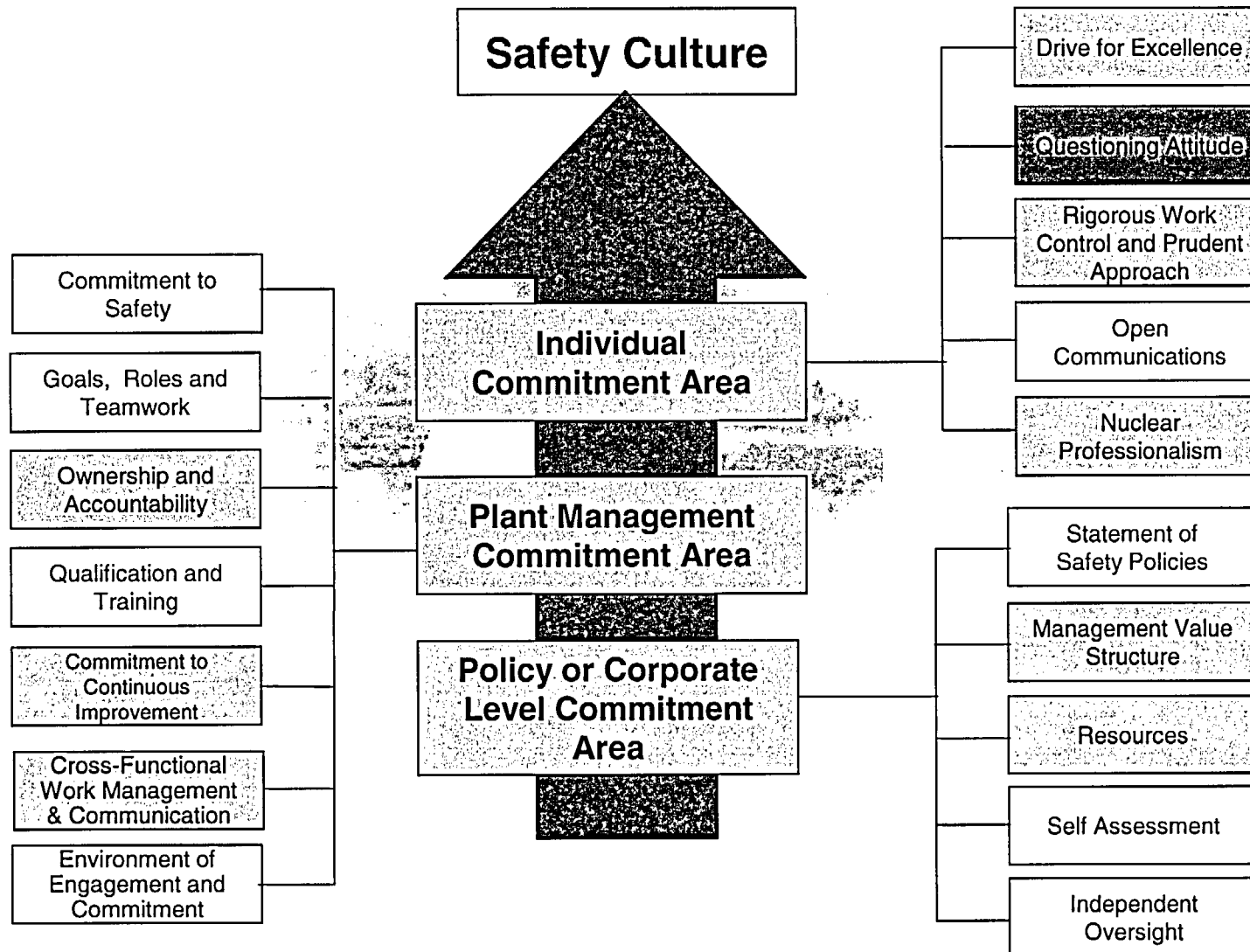
Process

- Improvement of Safety Culture
 - Communicated the importance of Nuclear Safety to employees
 - Created Safety Culture and Safety Conscious Work Environment Models based on industry experience to date and information from the International Atomic Energy Agency
 - Performance, Safety, and Health Associates, Inc. performed independent safety culture audit in February, 2003
 - Conducted self-assessments and internal surveys
 - Developed Business Practices on safety culture

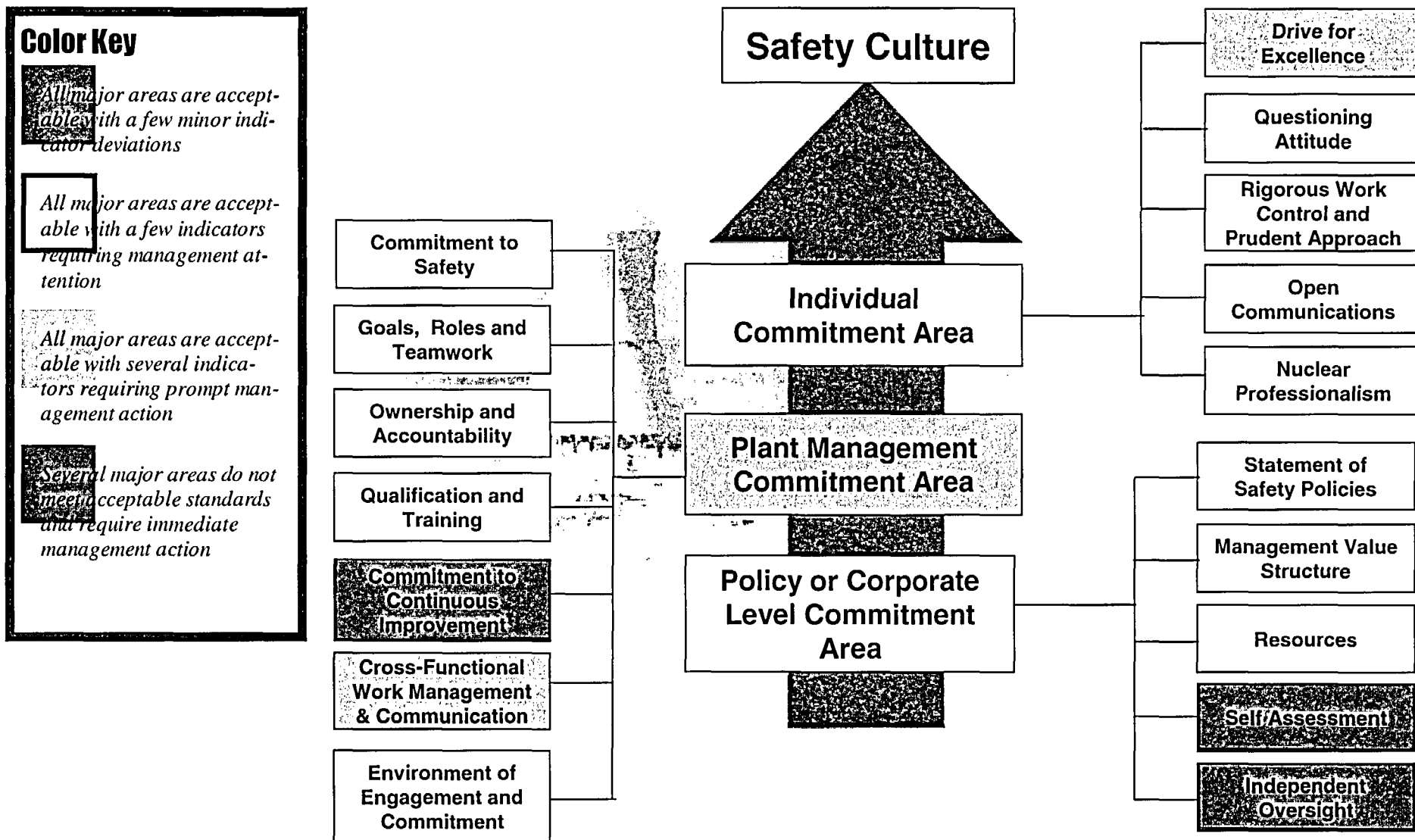
Results

- Performance, Safety, and Health Associates, Inc. Safety Culture Assessment
 - Weaknesses in management meetings, employee alignment, communication of safety goals, accountability and ownership for safety, and shift turnover focus
- Mode 5 Safety Culture Assessment
 - Weaknesses in Individual Commitment Area, Plant Management Commitment Area, and Policy or Corporate Level Commitment Area
- Mode 4/3 Safety Culture Assessment
 - Overall improvements in all three commitment areas

Mode 5 Safety Culture Assessment



Mode 4/3 Safety Culture Assessment



Actions Taken to Date

Policy or Corporate Level Commitment

- Safety communication from FirstEnergy Board of Directors
- Board of Directors site visits
- Nuclear Committee of Board of Directors on-site meetings
- FirstEnergy Chief Executive Officer All-Hands meetings
- FirstEnergy Chief Executive Officer Shift Manager meetings
- FENOC Policy on Safety Culture
 - Letter issued to all employees, and then made into a policy
- New Chairman of Nuclear Committee of Board

Actions Taken to Date

Policy or Corporate Level Commitment

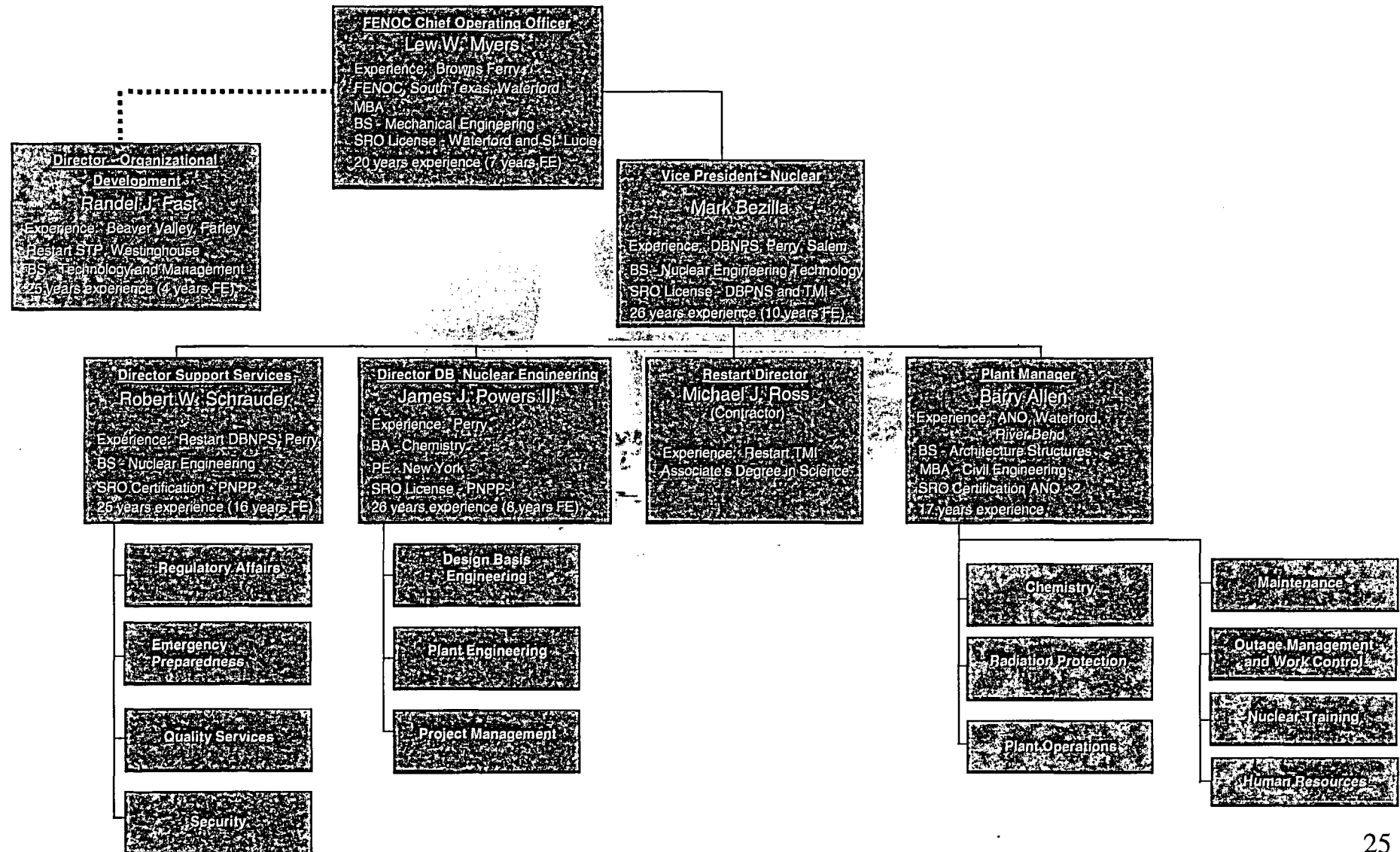
- New FENOC Executive Team
 - President
 - Chief Operating Officer
 - Senior Vice President - FENOC (Engineering)
 - Vice President - Oversight
 - Reports directly to Board of Directors
- Company Nuclear Review Board Changes
- New Vision, Strategic Objectives, and Metrics
- Nuclear Fleet sharing of resources and experience
- FirstEnergy Talent Management Program
 - Ensures talent for the future

Actions Taken to Date

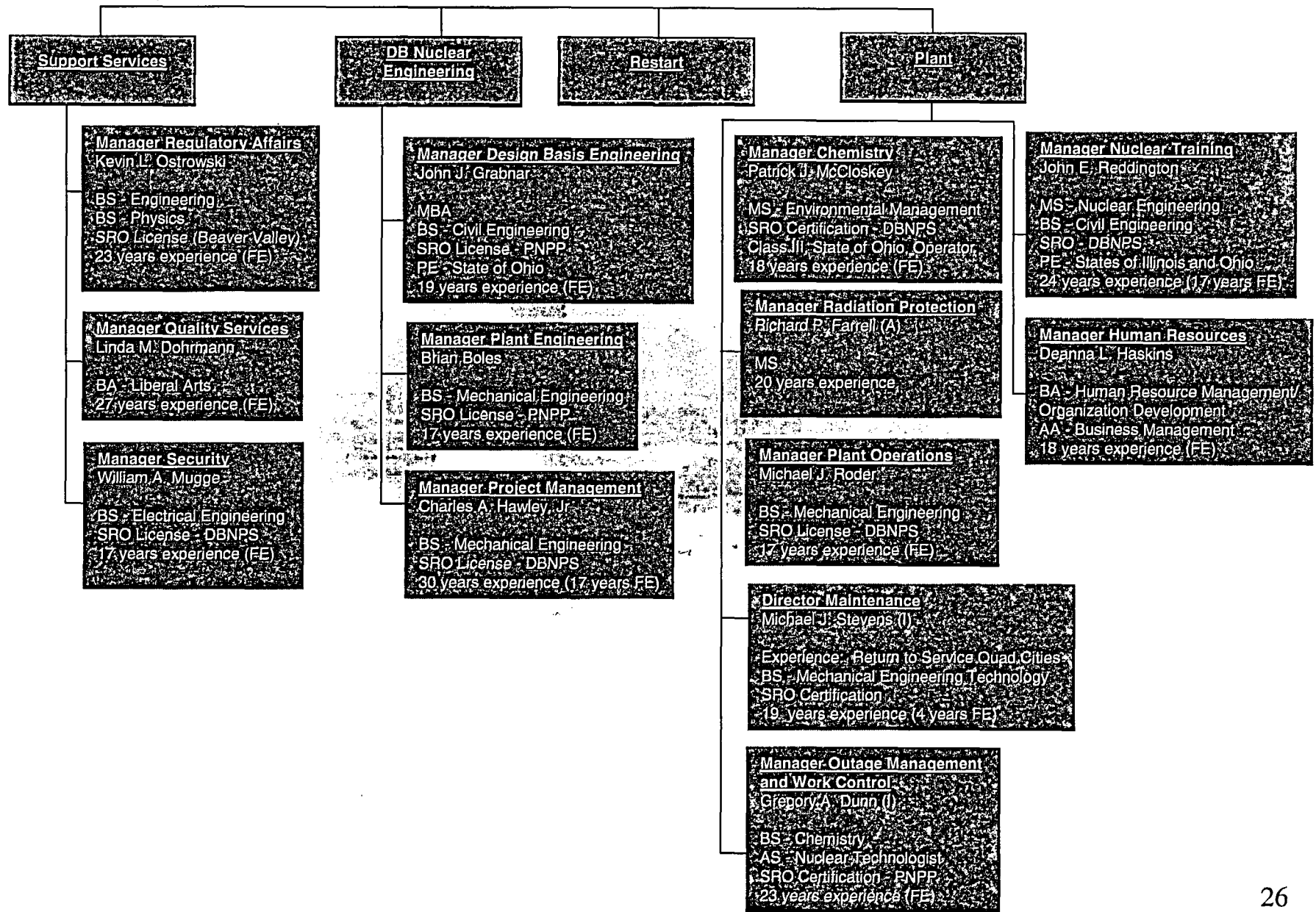
Management Level Commitment

- Proven Davis-Besse/FENOC Leadership Team
 - Addition of new Director of Organizational Development
- New Davis-Besse Management Team
- Evaluated managers for proper competencies
 - External RHR assessment

DAVIS-BESSE SITE ORGANIZATION



DAVIS-BESSE SITE ORGANIZATION



Actions Taken to Date

Management Level Commitment

- RHR review expanded population to include all management and supervisors
- Anchored behavioral expectations into training and appraisal process
 - Development of attributes* (competencies) for expected behaviors
 - Nuclear Safety
 - Nuclear Professionalism
 - Training of all supervisors and above on new Nuclear Safety competencies
 - Tied competencies to employee appraisals

Actions Taken to Date

Management Level Commitment

- Anchored oversight into continuing processes
 - Corrective Action Review Board (CARB)
 - Root Cause, Rigor, Quality and Approval
 - Engineering Assessment Board (EAB)
 - Technical Product Quality Review
 - Management Review Board (MRB)
 - Criteria for management review strengthened

Actions Taken to Date

Management Level Commitment

- Anchored safety work practices into current processes
 - Risk Management Process for ensuring proper management oversight for activities
 - Problem-Solving and Decision-Making Process
 - Program Review Process
 - Latent Issue Review Process
 - System Health Readiness Review
 - Management Observation Program
 - Operability Evaluation Process

Actions Taken to Date

Individual Level Commitment

- Case study training focus on Nuclear Safety
- Meetings with employees to communicate Safety Focus
 - Town Hall
 - 4-Cs (Communication, Changes, Concerns, and Compliments)
 - All-Hands
 - Site On-line Articles
 - FENOC On-Line Articles
- Management Observation Program / employee interface opportunities

Actions Taken to Date

Individual Level Commitment

- Supervisor and above leadership training
- Organizational standards and expectations
- Safety Conscious Work Environment Training
- Problem-solving / Decision-making Nuclear Operating Procedure rollout and communication
- Ad-hoc surveys in department meetings
- New Employee Orientation Manual

Actions Taken to Date

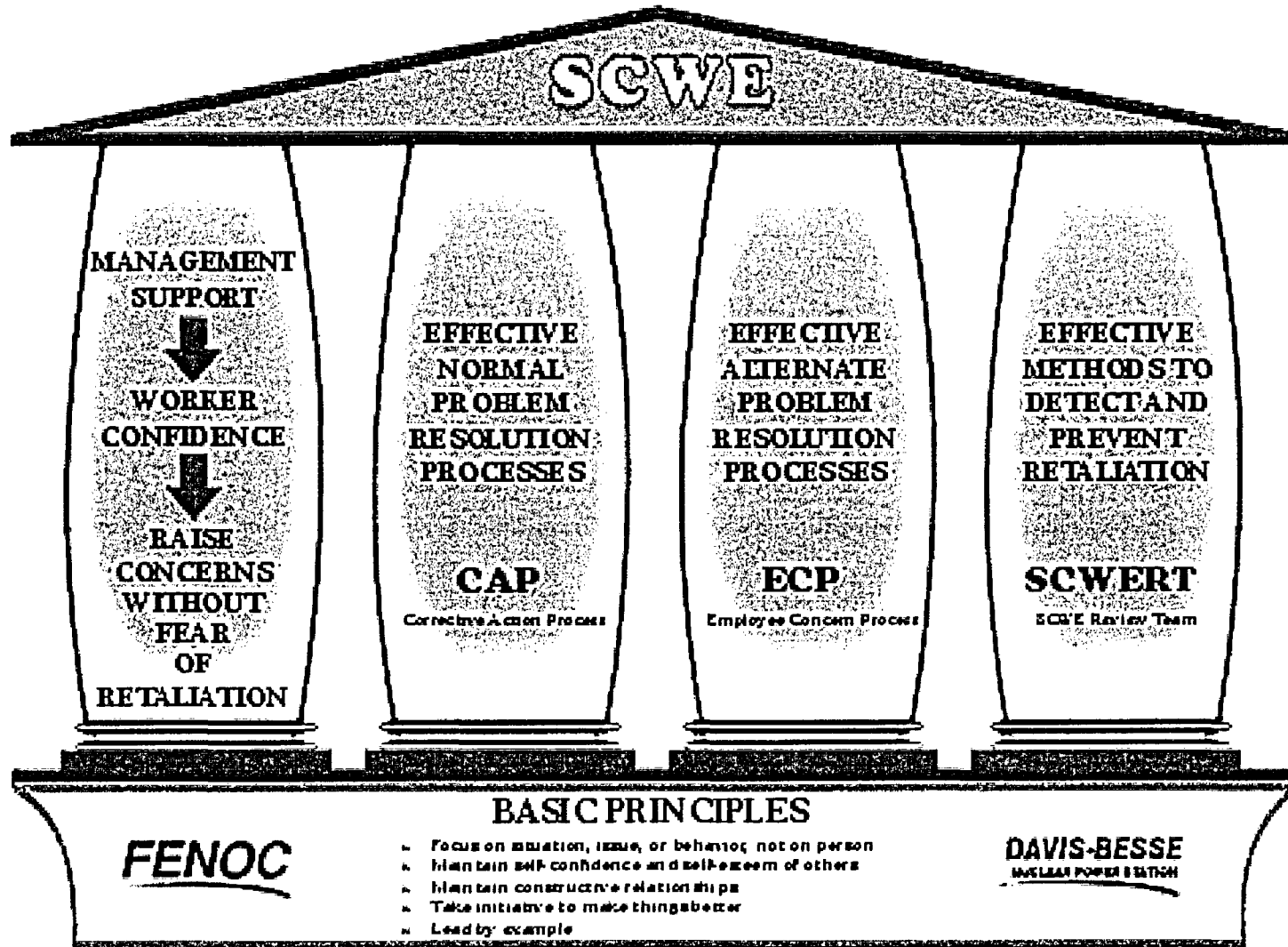
Safety Conscious Work Environment

Definition of Safety Conscious Work Environment:

“An environment in which personnel are encouraged to identify problems, are confident that problems will be effectively evaluated and corrected, and are protected from any form of retaliation.”

Actions Taken to Date

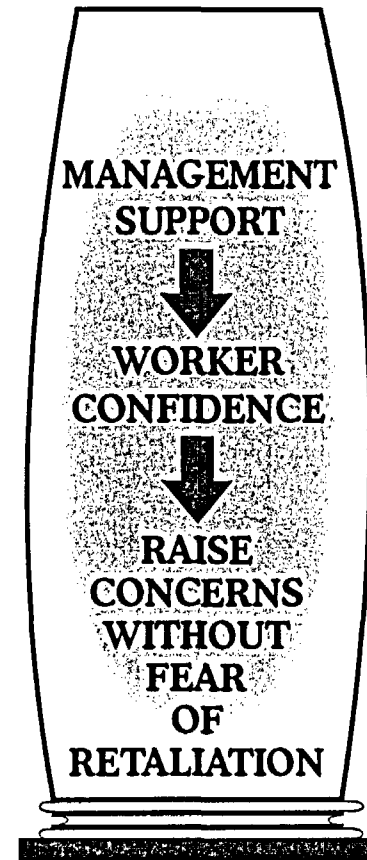
FOUR PILLARS OF A SAFETY CONSCIOUS WORK ENVIRONMENT



Actions Taken to Date

Safety Conscious Work Environment

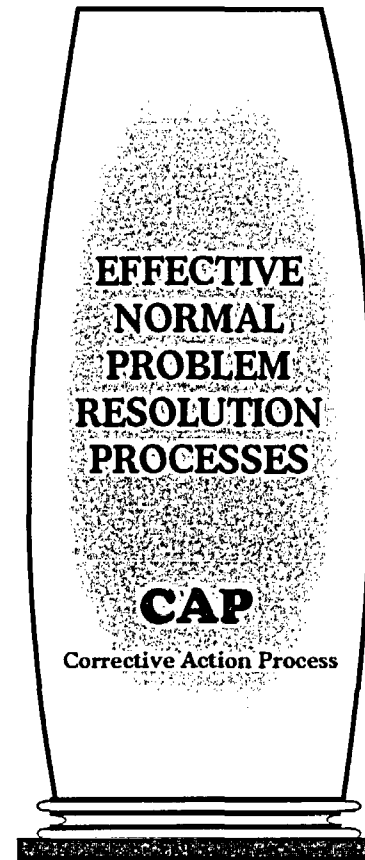
- Management Support / Worker Confidence
 - Issued FENOC Policy on SCWE
 - Trained all managers and supervisors on SCWE
 - Trained Operators on SCWE



Actions Taken to Date

Safety Conscious Work Environment

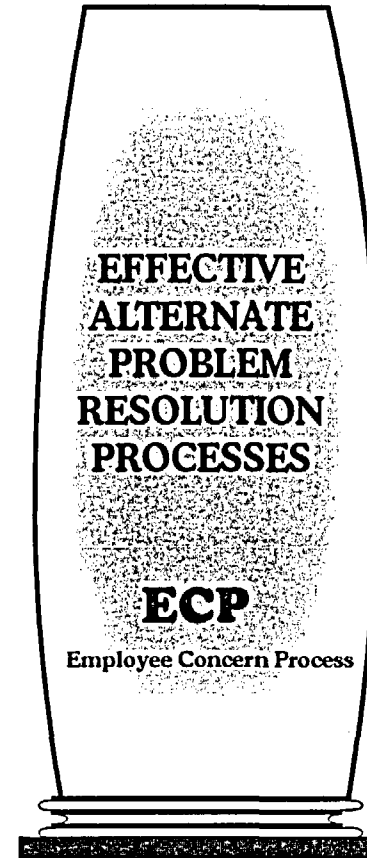
- **Corrective Action Process**
 - Enhanced Performance Indicators and Performance Monitoring
 - Independent validation of completed Condition Reports
 - Other Restart Improvements
 - Process changes
 - Procedure enhancement
 - Oversight changes
 - Training
 - Reinstated trending



Actions Taken to Date

Safety Conscious Work Environment

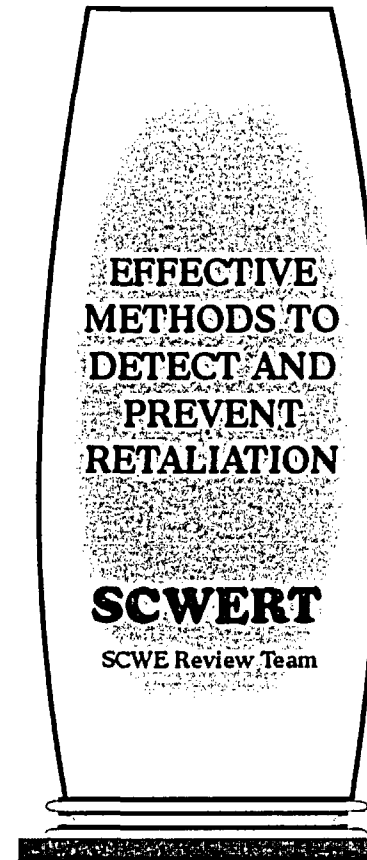
- Employee Concerns Process
 - Program became effective 12/30/2002
 - Benchmarked other nuclear plants (Millstone, Diablo Canyon, San Onofre, Nuclear Management Company)
 - Reports directly to the Vice President of Oversight
 - Independent of Site Management
 - Protection of confidentiality
 - Independent investigators available



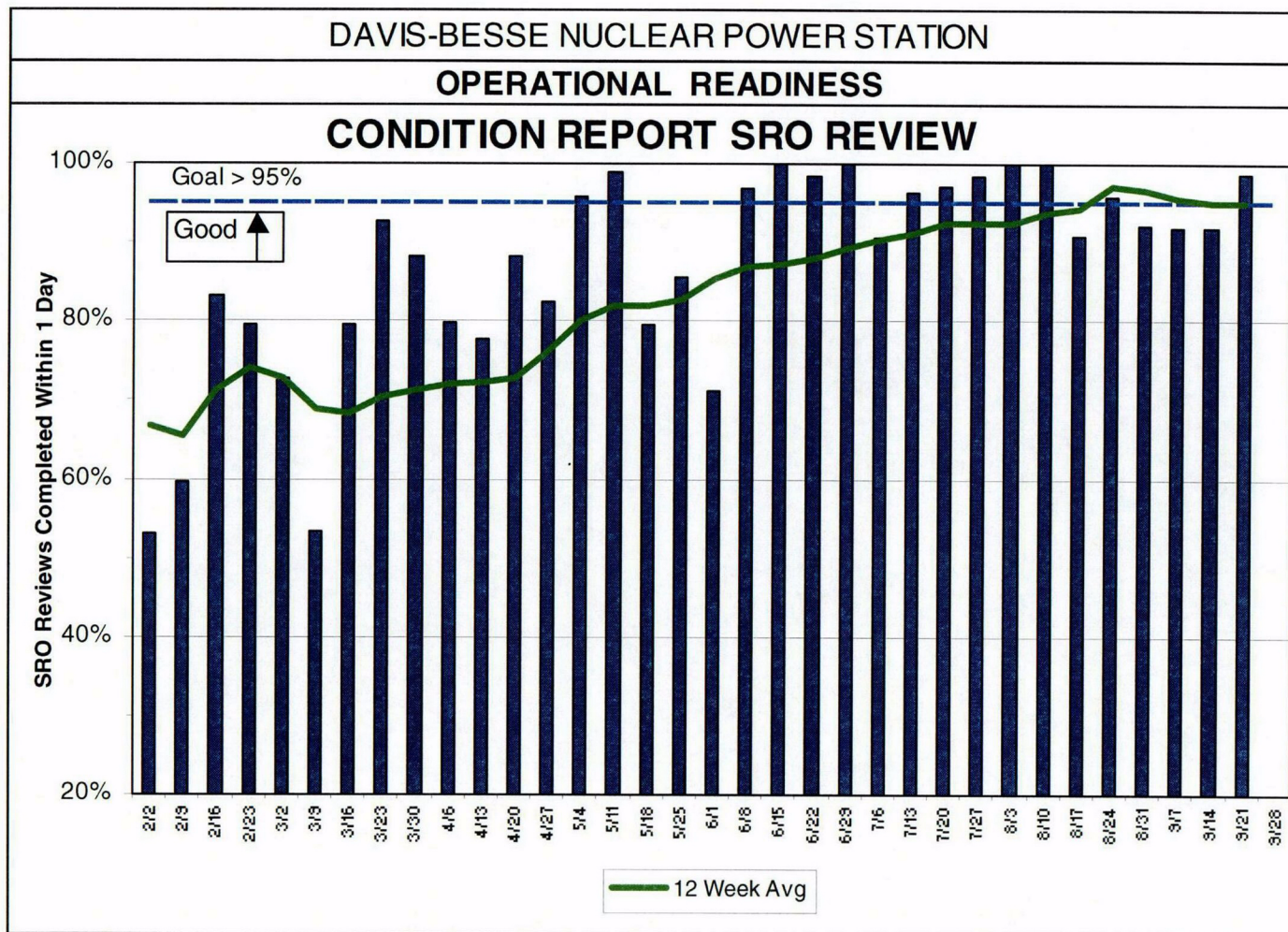
Actions Taken to Date

Safety Conscious Work Environment

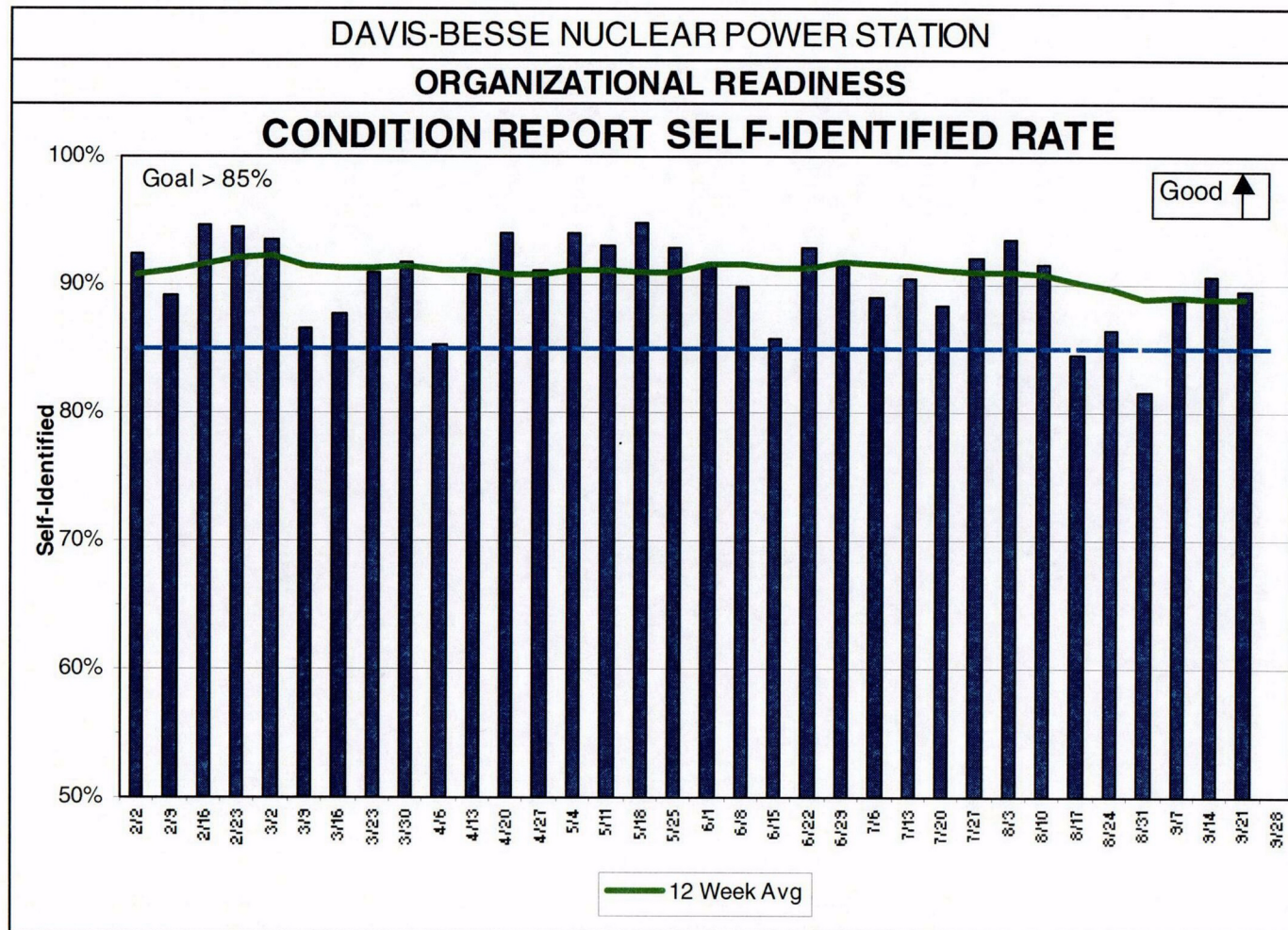
- **Safety Conscious Work Environment Review Team**
 - Chartered team to review proposed personnel actions
 - Team comprised of Human Resources, Legal, Employee Concerns Program
 - Team oversaw contractor reduction effort
 - Team actively looks for issues which may even give the perception of discrimination



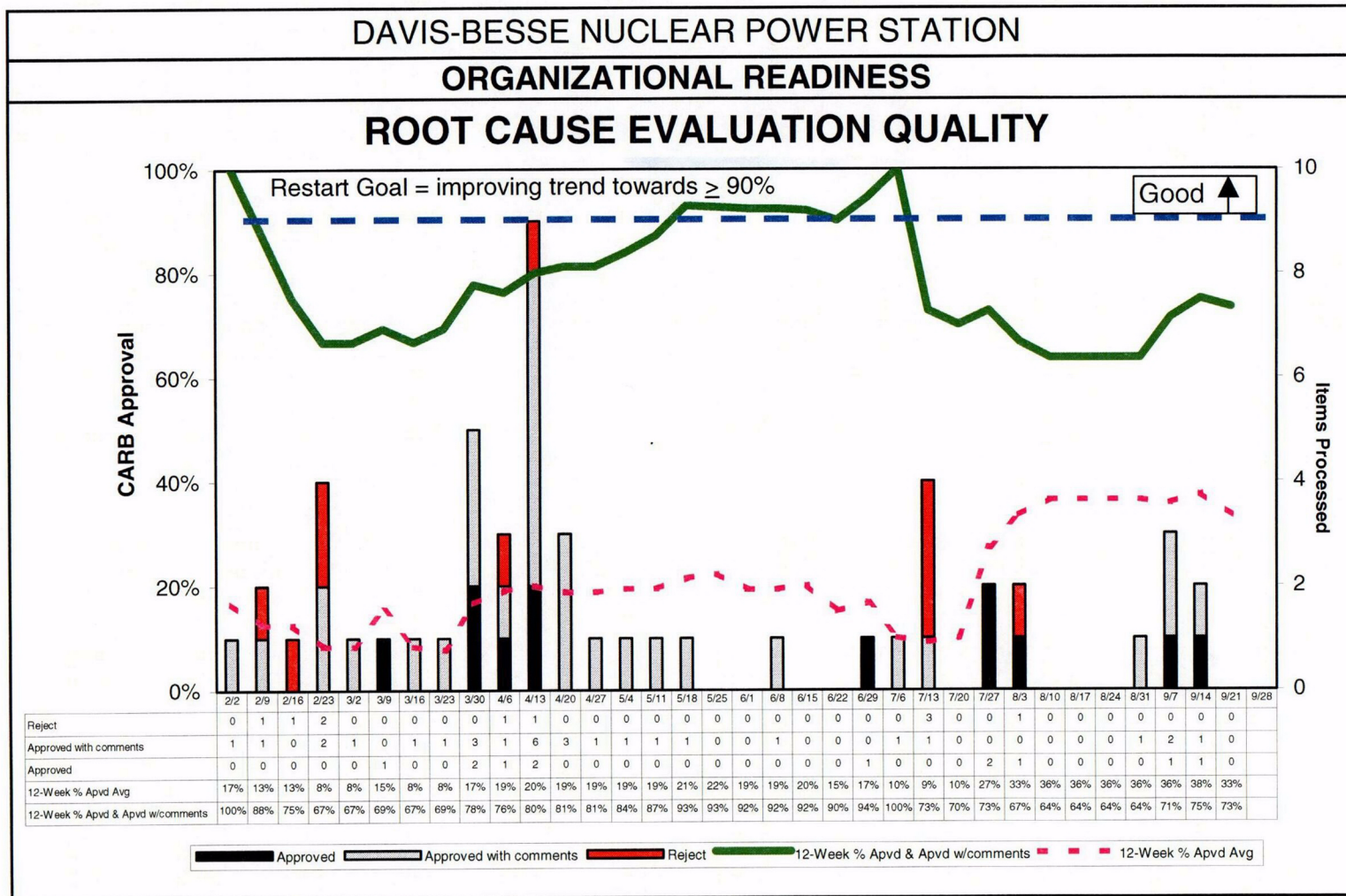
Effectiveness to Date



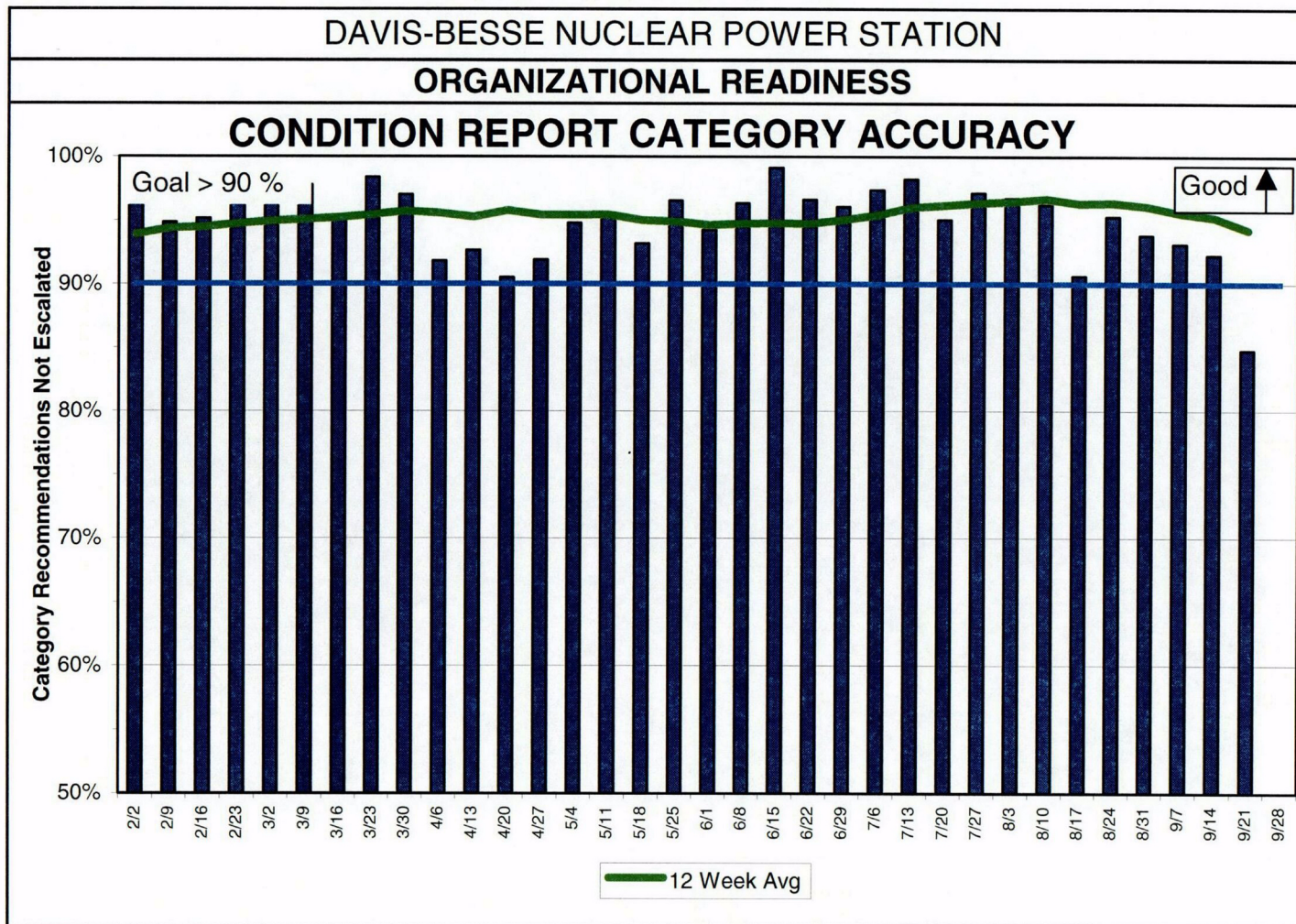
Effectiveness to Date



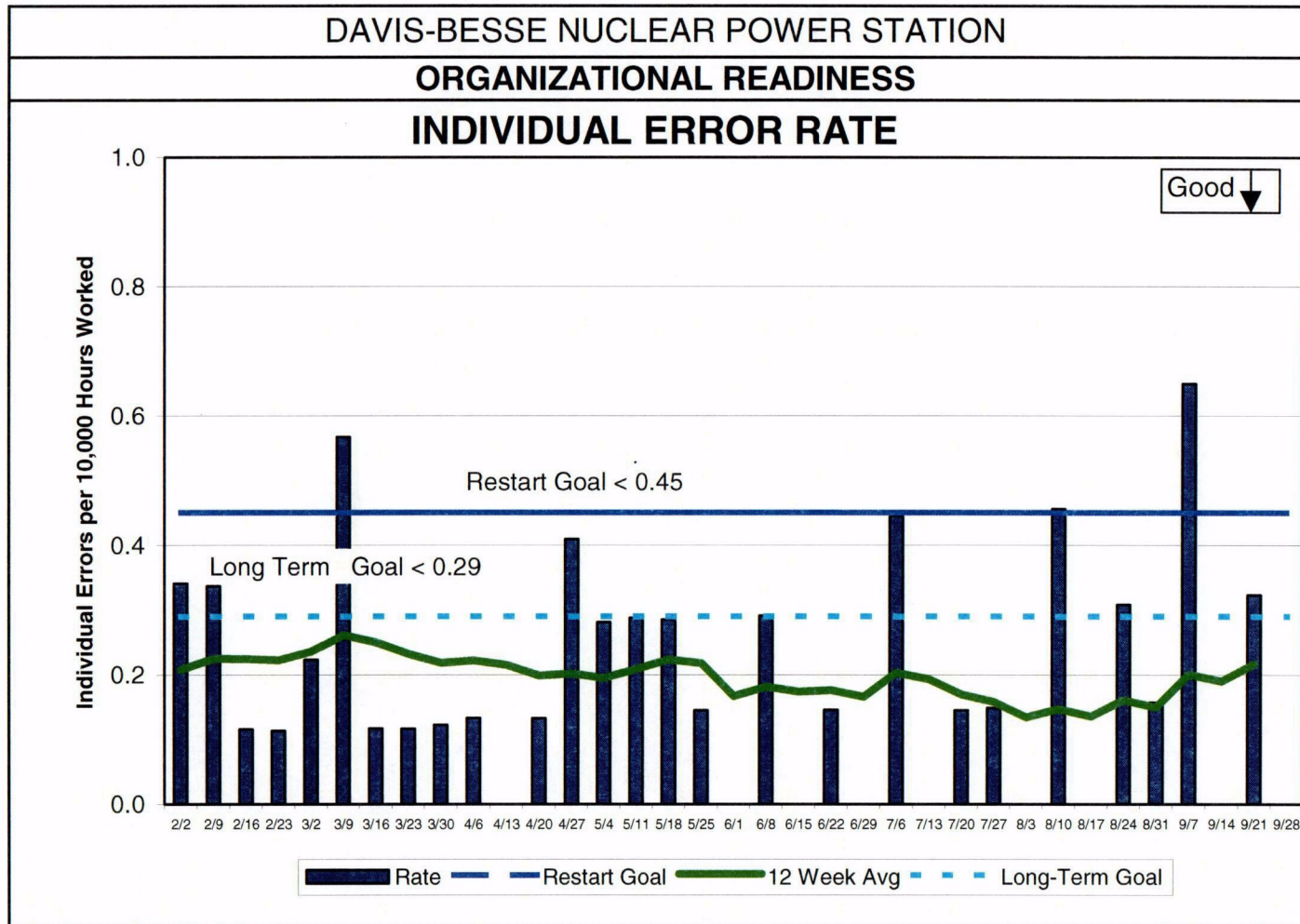
Effectiveness to Date



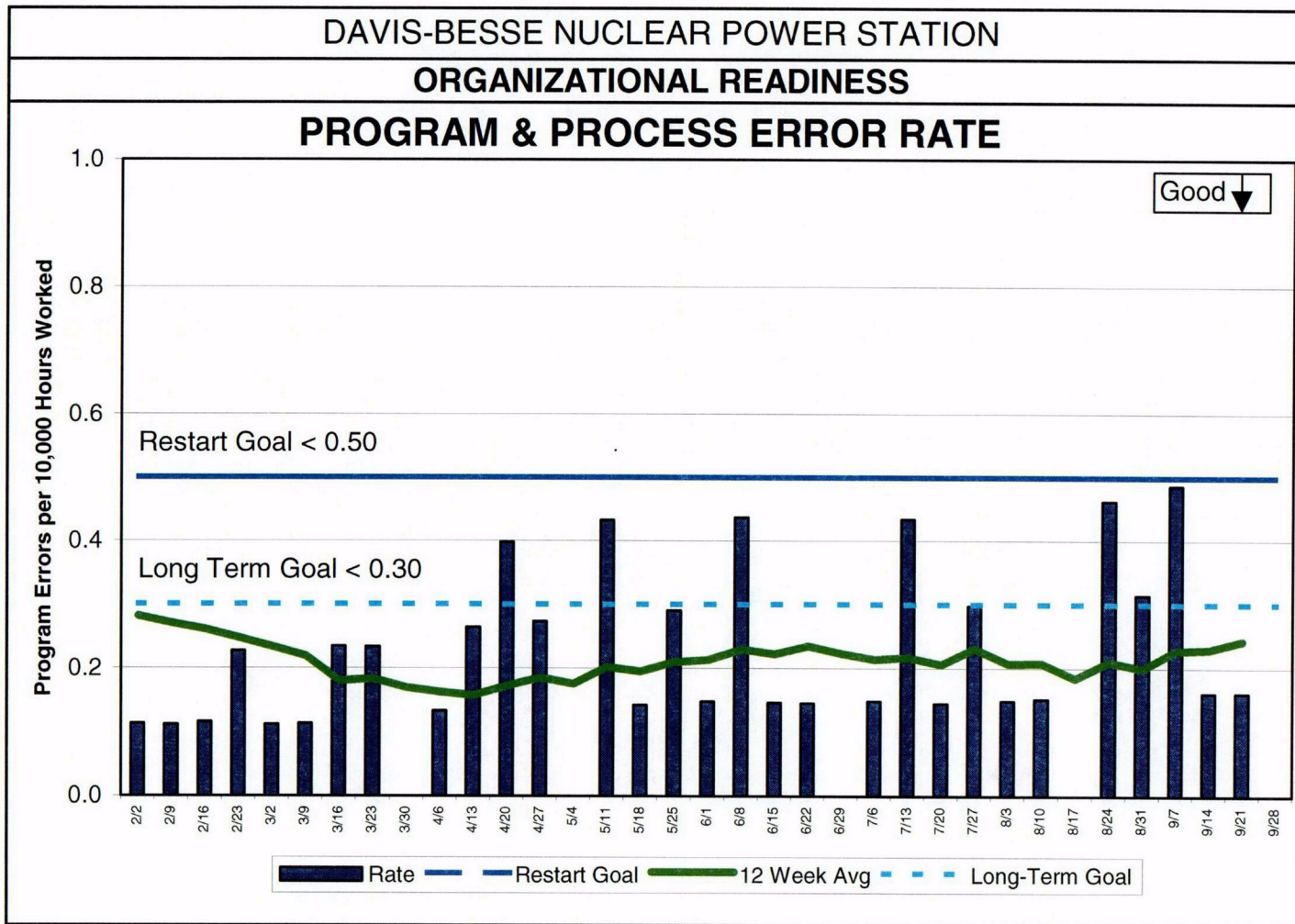
Effectiveness to Date



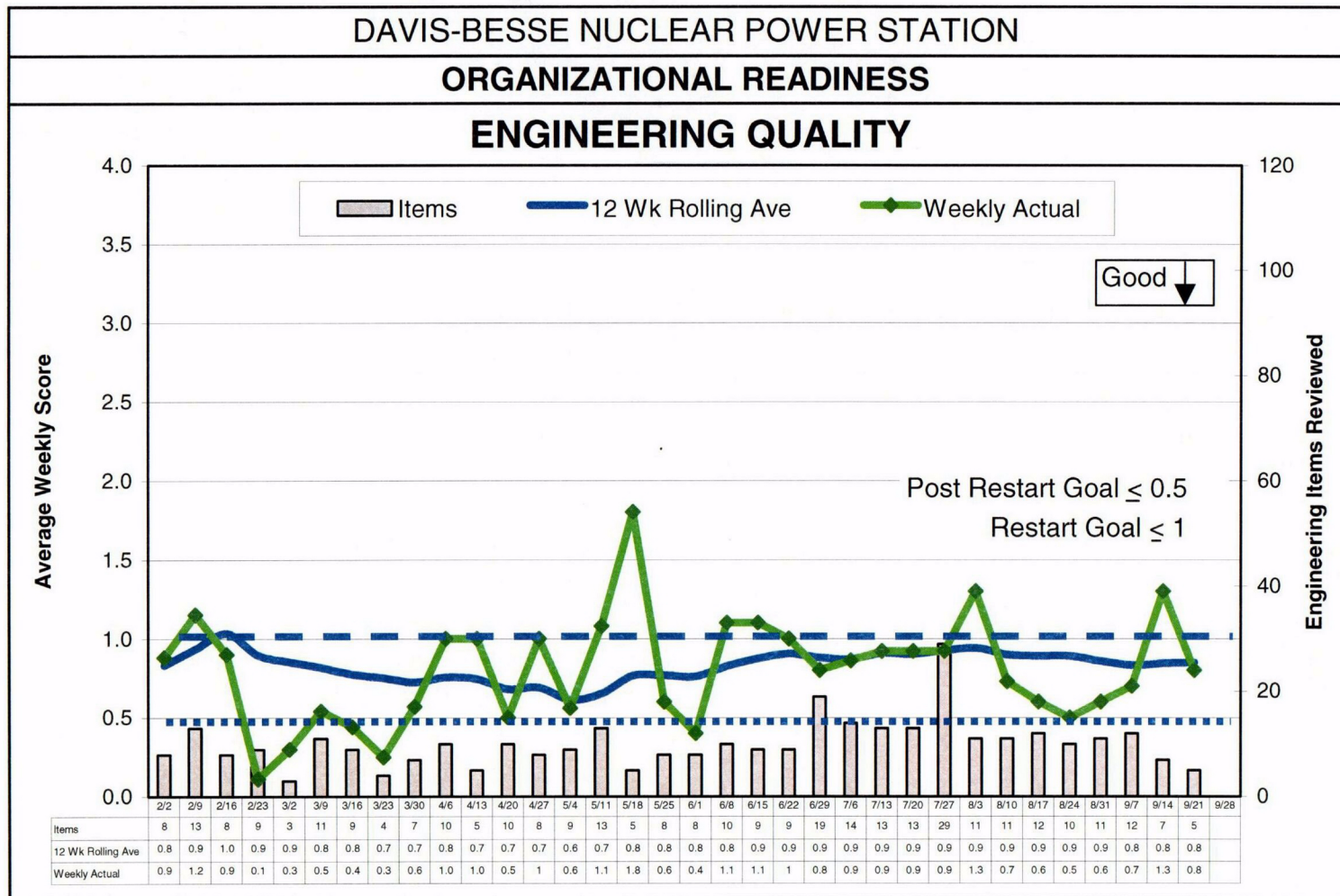
Effectiveness to Date



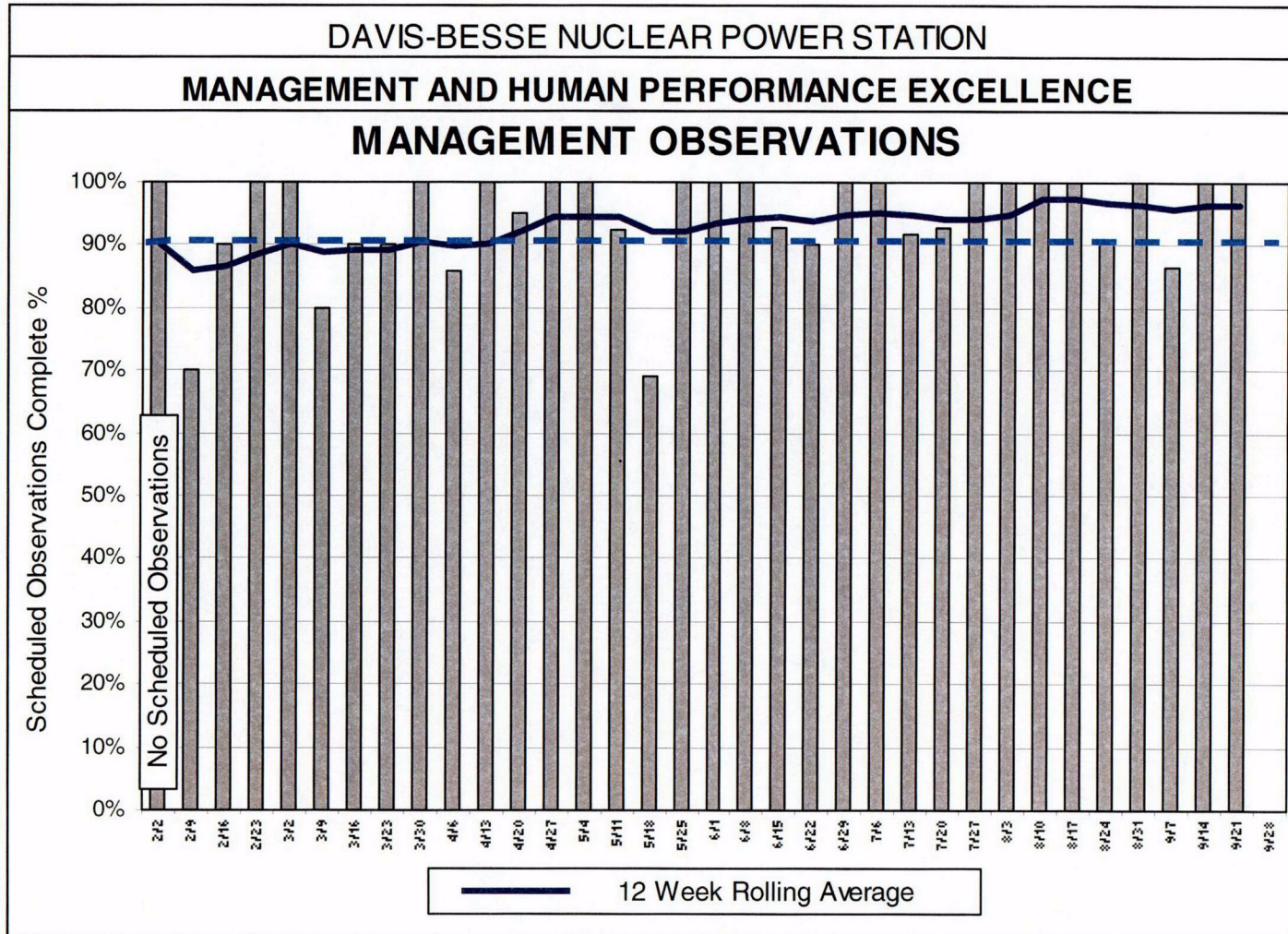
Effectiveness to Date



Effectiveness to Date



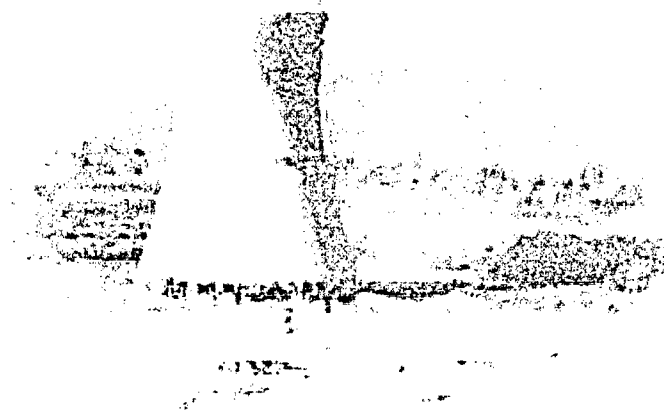
Effectiveness to Date



Results of 4-Cs Meeting

- Chief Operating Officer has met with > 700 employees in groups of ~ 15 to reinforce management support in 4-Cs meetings
 - Open forum where employees to make suggestions and voice concerns
 - Action Items are captured and classified into three areas
 - Site
 - Department
 - Individual
 - Management reviews items to consider improvements

Oversight Perspectives on Safety Culture Effectiveness



Fred Von Ahn
Vice President - FENOC Oversight

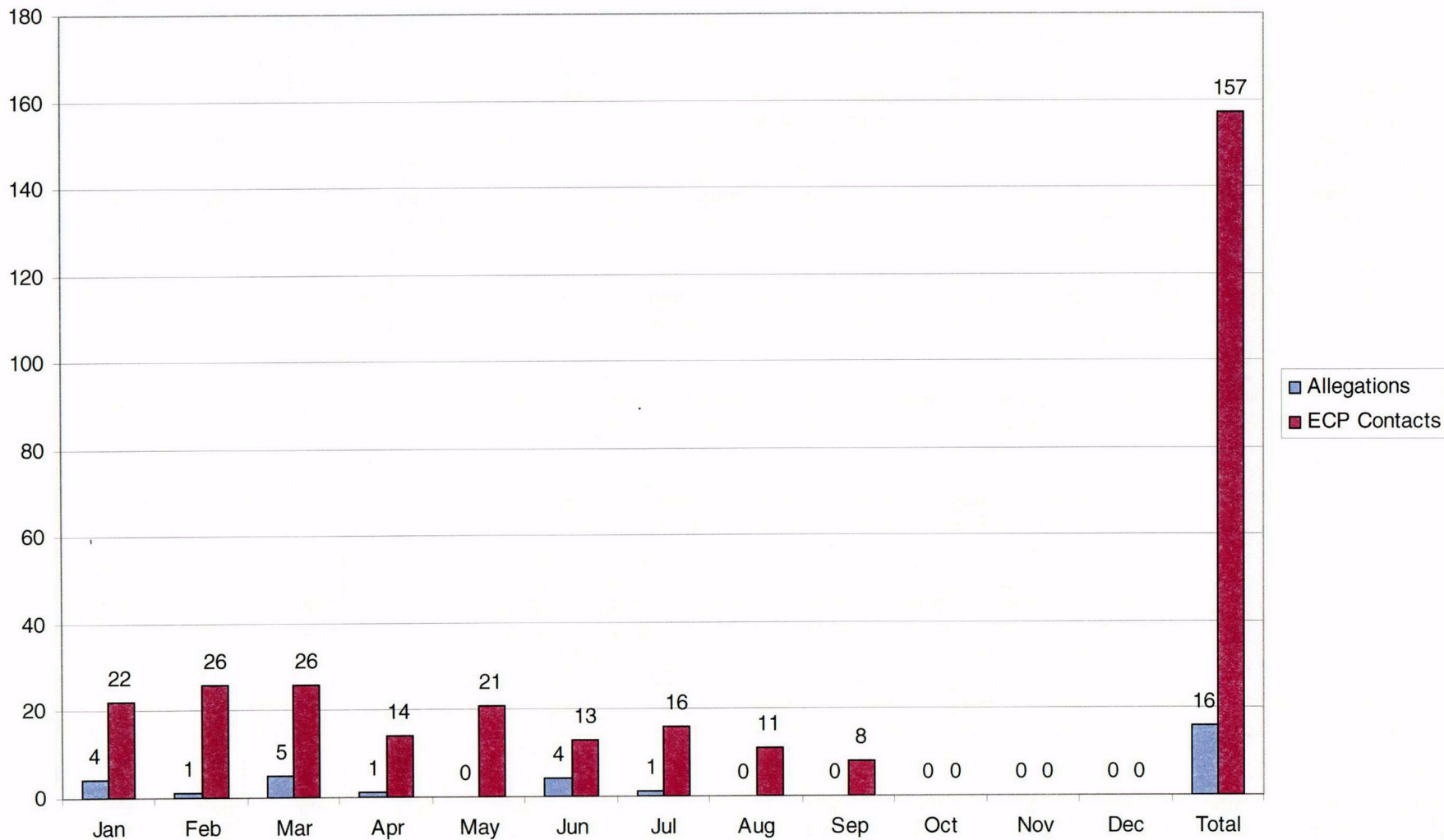
Assessment of Effectiveness

- Station Attention to Safety Conscious Work Environment (SCWE)
- Actions Leading to Mode 4
- Mode 4/3 Execution
- Conclusions to Date

Safety Conscious Work Environment

- Actions Completed
 - Employee Concerns Program Program Initiation
 - Safety Conscious Work Environment Surveys
 - Safety Conscious Work Environment Review Team Initiation
- Effectiveness of Actions

2003 NRC Allegations and ECP Contacts by Month



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March 2003 SCWE Survey Results Conclusions

- Significant improvement in results from 2002 survey
- Continuing opportunity for site-wide improvement in areas
 - Management internalization and espousal of “Basic Principles” in dealing with workers
 - Management reinforcement of safety over cost and schedule

March 2003 SCWE Survey Results

Conclusions

(continued)

- Rigorous follow-through on Corrective Actions Program improvements
- Continuing opportunity for site-wide management reinforcement of SCWE with contractors
- Significant “challenge pockets” in areas of Radiation Protection/Chemistry, Maintenance, and Plant Engineering for both FENOC and contractor workers

Response Analysis

2002 / 2003 Comparison

		2002 Survey			2003 Survey		
		Negative Responses			Negative Responses		
#	Question	ALL	FENOC	Contractor	ALL	FENOC	Contractor
	Total Number of Workers	386	280	84	1139	666	377
“Retaliation” Questions →	7 I can raise nuclear safety or quality concern without fear of retaliation	18.5%	22.1%	5.6%	7.1%	4.2%	9.9%
	25 I feel free to raise nuclear safety or quality issues on CRs without fear of reprisal	16.1%	18.4%	8.5%	5.6%	3.0%	8.5%
	30 I can use ECP without fear of retaliation	14.6%	18.1%	4.0%	5.1%	3.2%	7.0%
“HIRD” Questions →	35 I have been subjected to HIRD within the last 6 months	7.1%	8.9%	1.2%	8.1%	5.1%	10.9%
	36 I am aware of others who have been subjected to HIRD within the last 6 months	12.4%	14.6%	4.8%	15.3%	10.2%	22.3%

<5% Negative Response
Between 5% and 10% Negative Response
>10% Negative Response

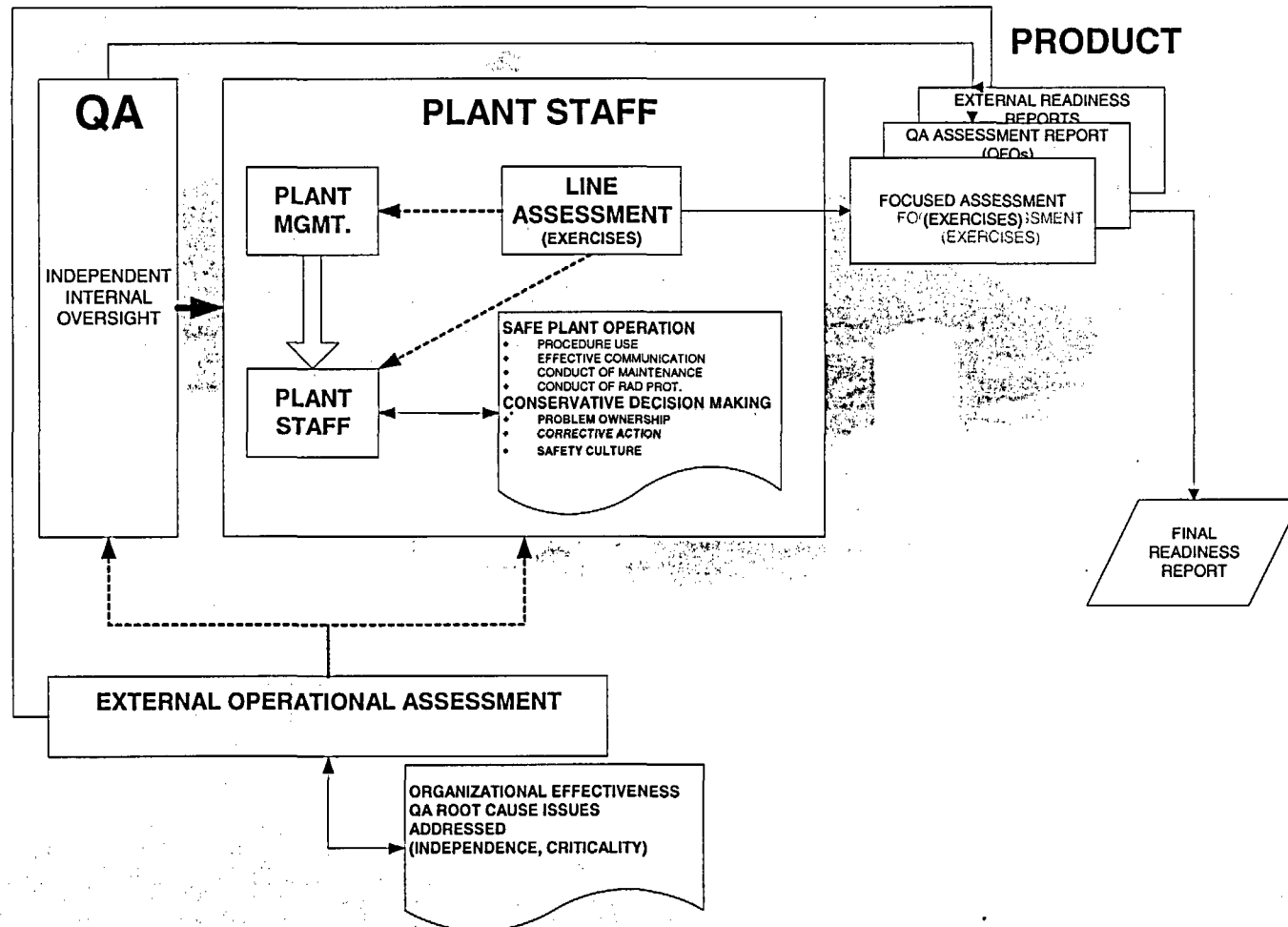
Actions Leading to Mode 4

- Operations Leadership
- Supporting Groups
- Station Safety Culture

Mode 4/3 Execution

- Measurement Model
- Observations
- Conclusions

INTEGRATED ASSESSMENT DURING SEVEN DAY NOP TESTING



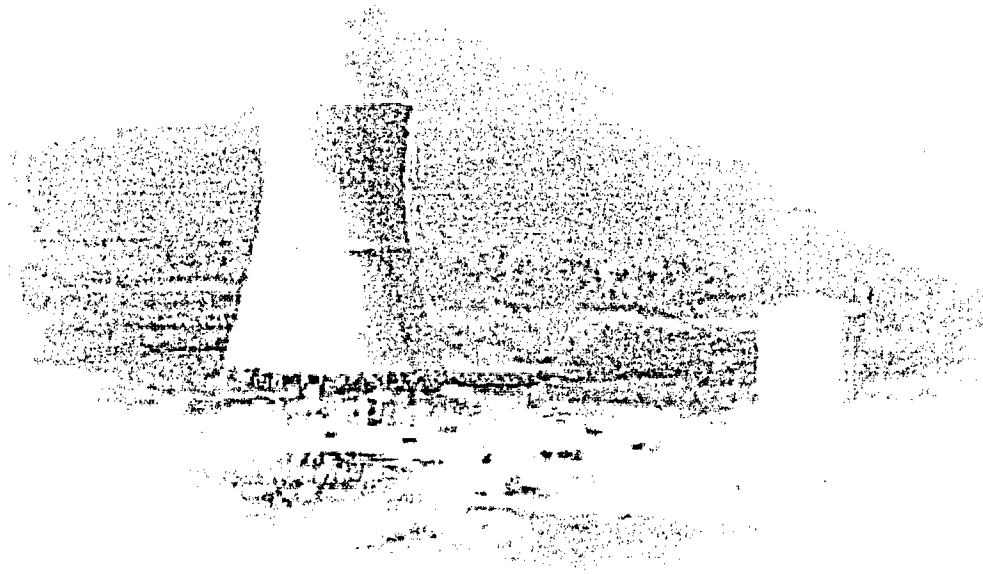
Mode 4/3 Observations

- External
- Internal Management
- Oversight

Conclusions

- Pre Mode 4/3
- Mode 4/3 Activities
- Safety Culture & SCWE
- Recommendations

Remaining Organizational Actions



Mark Bezilla
Vice President - Davis Besse

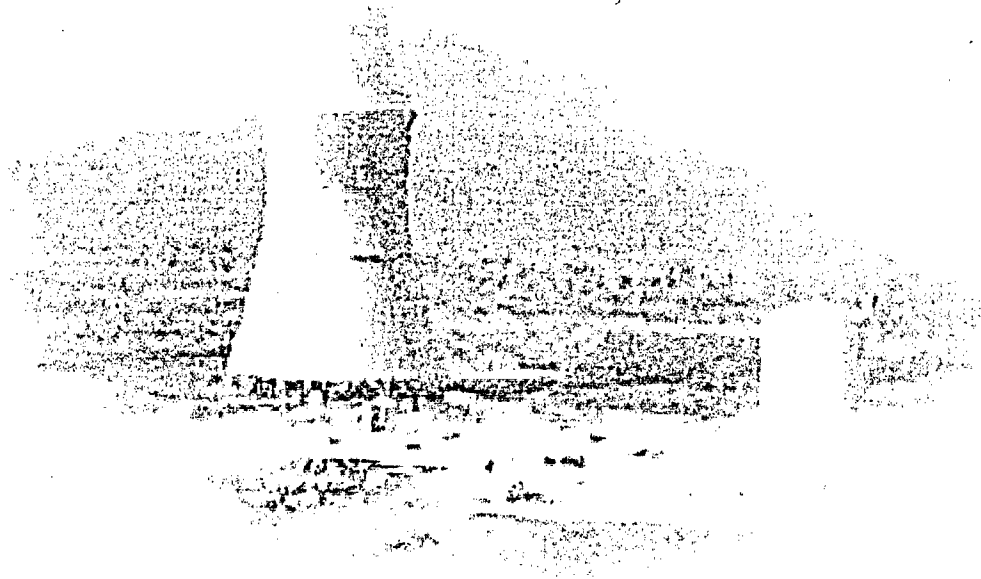
Remaining Organizational Actions

- Organizational Actions to be completed
 - Completion of 10CFR 50.9, 'Completeness and Accuracy of Information' training
 - Strengthen our Calculation Program
 - Contracted Sargent and Lundy to review Condition Report Apparent Causes with calculations
 - Strengthen our Condition Report Process
 - Condition Report Evaluators will receive Apparent Cause training
 - Establish an Apparent Cause Review Group consisting of Condition Report Analysts

Remaining Organizational Actions

- Organizational Actions to be completed (continued)
 - Alignment / teamwork sessions with all employees
 - One day-long site alignment / teambuilding sessions with employees
 - Learning Map rollout
 - Address Lessons-Learned and actions resulting from Nuclear Operating Pressure Test
 - Restart Readiness Reviews

Long-Term Organizational Effectiveness Vision



Gary Leidich

President and Chief Nuclear Officer - FENOC

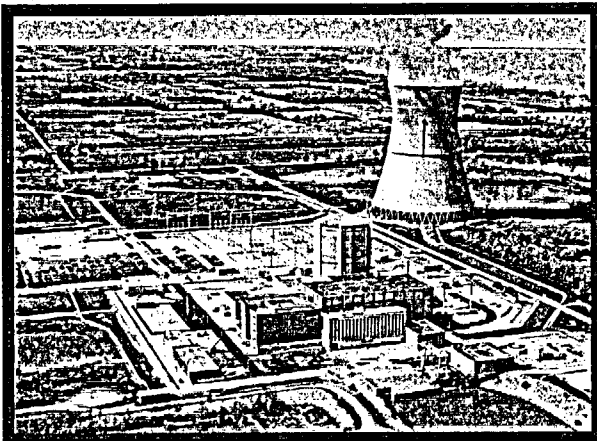
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Long-Term Organizational Effectiveness Vision

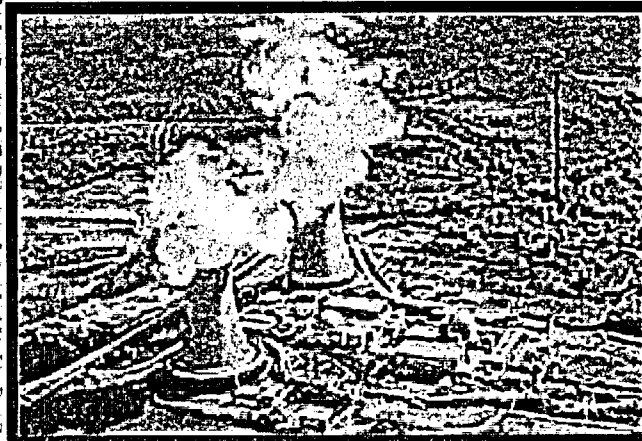


FENOC Vision:

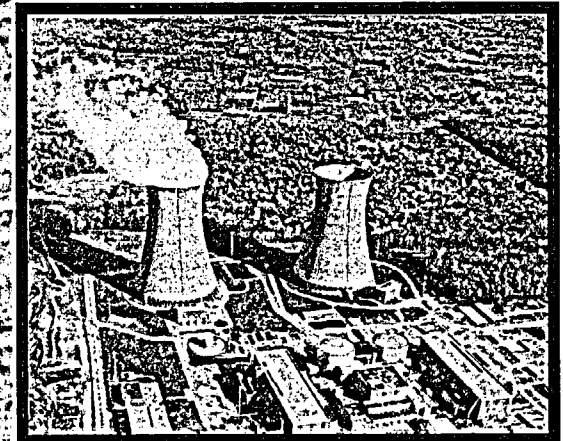
'People with a strong safety focus delivering top fleet operating performance'



Davis-Besse



Beaver Valley



Perry

Long-Term Organizational Effectiveness Vision

New FENOC Vision, Strategic Objectives, and Metrics

Safe Plant Operation

People Development and Effectiveness

Excellent Material Condition

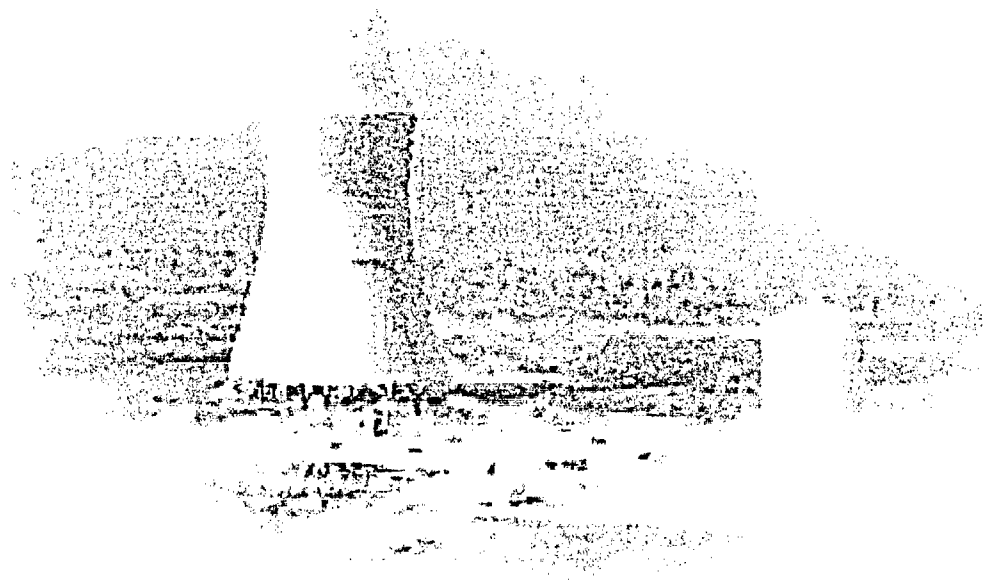
Improved Outage Performance

Fleet Efficiency and Effectiveness

Long-Term Organizational Effectiveness Vision

- Organizational Effectiveness
 - High levels of trust
 - Employees trust leadership
 - Leadership trusts employees
 - Open communications
 - Speaking and listening
 - Demonstrated respect for each other
 - Input and feedback valued
 - High accountability to each other
 - Demonstrated inter-department teamwork
 - Willingness to bring up, hear, and address problems
 - Management involvement in activities and decisions
 - Fleetwide Organizational Effectiveness Director

Long-Term Improvement Plan



Randy Fast
Director- Organizational Development

Actions to Anchor Long-Term Improvement

New officers and management

At corporate level

At plant level

New corporate-level departments for fleet-wide
improvements

Improvements in plant systems to add margin

Actions to Anchor Long-Term Improvement

Improvements for Personnel Performance

Training on lessons learned

New training for managers and supervisors on
nuclear safety focus and professionalism

Department level expectations

Improvements in communications and teamwork

Alignment of management and personnel

Improvements in personnel evaluations and
development

Leadership development

Operations Leadership

New Employee Orientation Manual

Actions to Anchor Long-Term Improvement

Improvements in Programs

Program reviews and benchmarking

Corrective Action Program

Employee Concerns Program

Operating Experience Program

Radiation Protection Program

Boric Acid Corrosion Control and Leak
Detection Programs

Operability Evaluations

Problem Solving and Decision-Making

Actions to Anchor Long-Term Improvement

Improvements in Monitoring and Oversight

Management Observations

New performance indicators

New Safety Culture Assessments

New Engineering Assessment Board and improved

Corrective Action Review Board

Augmented independence and capability of Quality

Assurance

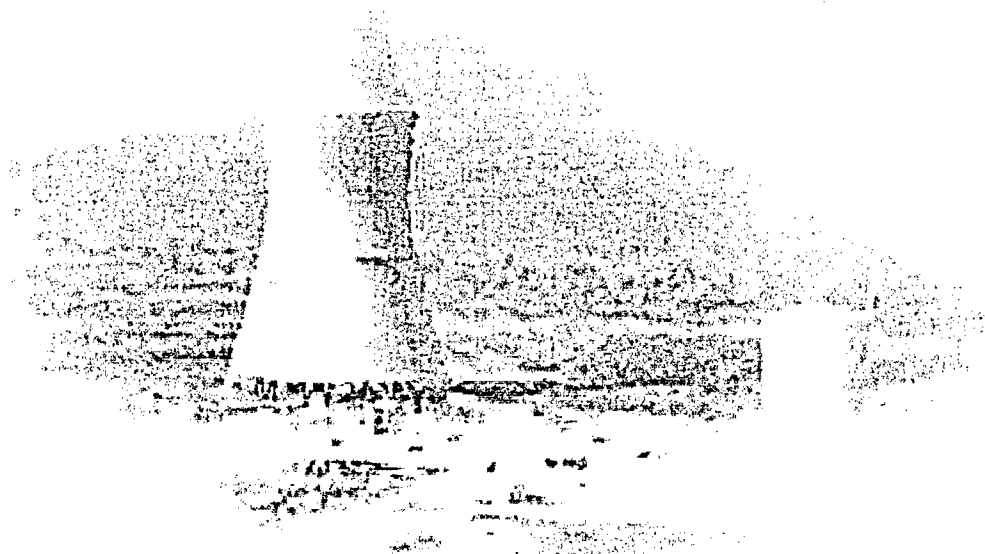
Improvements in Company Nuclear Review Board

and Board oversight

Long-Term Improvement Plan

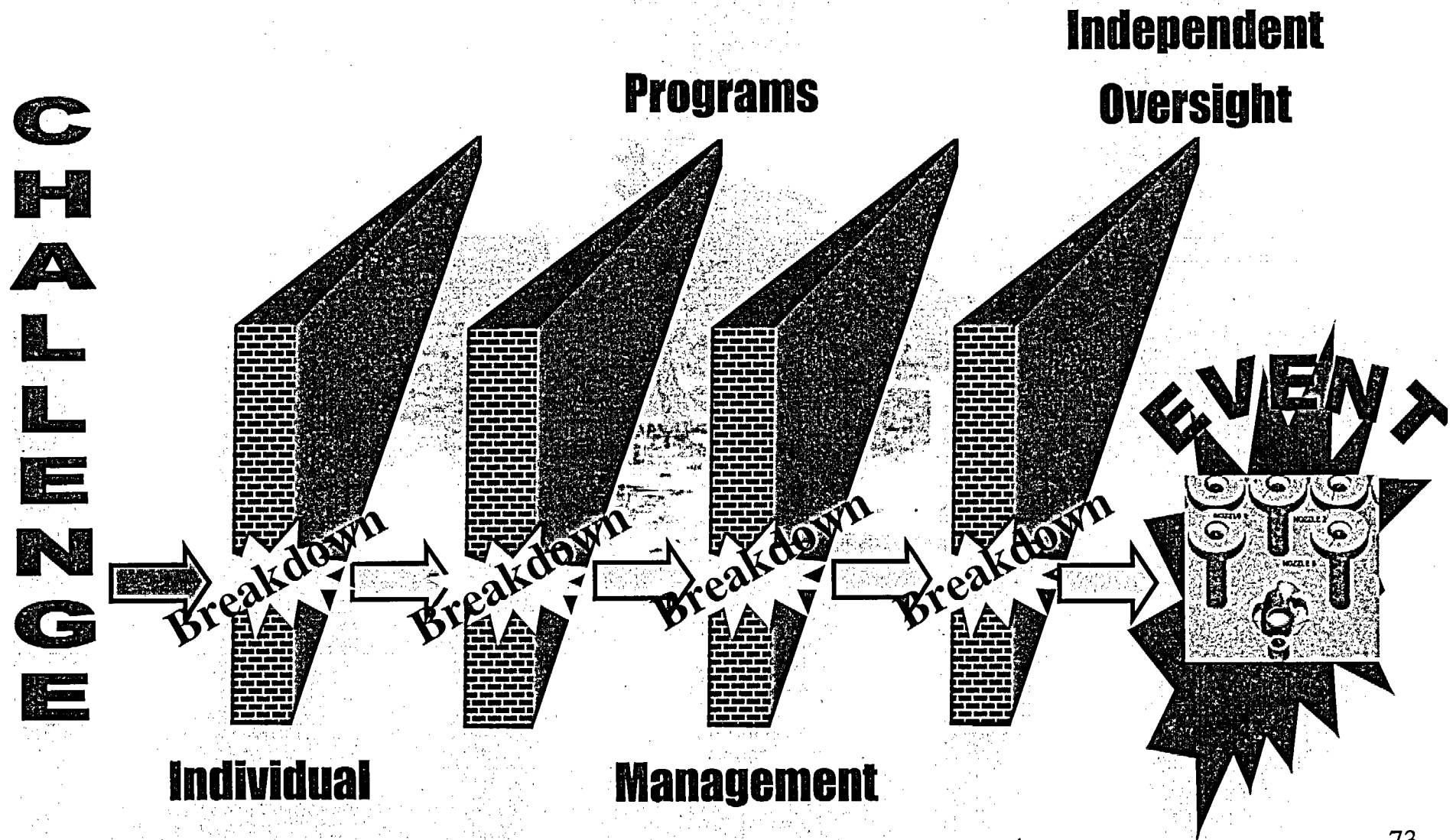
- Future monitoring schedule
 - Business Practice to ‘monitor’ the safety culture monthly along with Business Practice performance
 - Line organization safety culture assessment prior to Mode 2
 - Line Management Safety Assessment every two years
 - SCWE survey in the 4th quarter of 2003 (annually thereafter)
 - Quality Assurance Independent Assessment in the 4th quarter of 2003 (annually thereafter)
 - Outside independent safety culture assessment in the 4th quarter of 2004

Barriers Demonstrating FENOC'S Strong Safety Focus



Lew Myers
Chief Operating Officer - FENOC

FirstEnergy® Barriers Demonstrating FENOC'S
Strong Safety Focus



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Barriers Demonstrating FENOC'S Strong Safety Focus

• Individual Commitment - Completed

- Evaluated Supervisors
- Provided Reactor Head Case Study Training
- Provided Supervisor Refresher Training on Leadership in Action
- Provided Supervisor Training on SCWE
- Strengthened Individual Ownership and Commitment
- Engineering Rigor
- Operability Decision-Making
- Operator License Responsibilities Training
- Shift Manager Command Responsibility
- Participation in Town Hall and 4-C Meetings
- Participation in Monthly All-Hands Meetings
- Strengthened Questioning Attitude
 - Standard Format for Pre-Job Briefings
- Implemented Operator Leadership Plan
- Requalified All Root Cause Evaluators

Individual

Drive for
Excellence

Questioning
Attitudes

Rigorous Work
Control and
Prudent Approach

Open
Communications

Nuclear
Professionalism

Barriers Demonstrating FENOC'S Strong Safety Focus

Individual

Drive for Excellence

Questioning Attitudes

Rigorous Work Control and Prudent Approach

Open Communications

Nuclear Professionalism

- Drive for Excellence - Assessment Input
 - Number of Systems Classified Maintenance “a (1)”
 - Number of Workarounds
 - Number of Temporary Modifications
 - Number of Control Room Deficiencies
 - Individual Error Rates
 - Number of Long-Standing Equipment Problems
 - Percent of Self-Identified Condition Reports
 - Number of Engineering Condition Reports Outstanding
 - Engineering Assessment Board Index

Barriers Demonstrating FENOC'S Strong Safety Focus

Individual

Drive for Excellence

Questioning Attitudes

Rigorous Work Control and Prudent Approach

Open Communications

Nuclear Professionalism

- Questioning Attitudes - Assessment Input
 - Quality of pre-job briefings as a management observation
 - Number of Condition Reports (CRs) per person per group
 - Number of programmatic CRs
 - Number of procedure problems
 - Number and type of operational events (e.g., tagging errors, mispositioning)

Barriers Demonstrating FENOC'S Strong Safety Focus

- Rigorous Work Control and Prudent Approach - Assessment Input
 - Employee Event Free Clock
 - Industrial Safety Index
 - Employee error rate
 - Program process error rate
 - Significant human performance errors resulting in plant transients
 - Backlog of procedure change requests
 - Quality Control hold point/rework rate
 - Number of work orders
 - Scheduled/completed each week
 - Number of late PMs
 - Backlog of corrective maintenance
 - Number of “a (1)” systems

Individual

Drive for Excellence

Questioning Attitudes

Rigorous Work Control and Prudent Approach

Open Communications

Nuclear Professionalism

Barriers Demonstrating FENOC'S Strong Safety Focus

Individual

Drive for
Excellence

Questioning
Attitudes

Rigorous Work
Control and
Prudent Approach

Open
Communications

Nuclear
Professionalism

• Open Communications - Assessment Input

- Number of Condition Reports per person per group
- Number of concerns going to Employee

Concerns Program vs. NRC

- Ad-hoc surveys pulsing of organization
- Feedback from 4C's Meeting
- KIP Program: Keep Improving Performance

Barriers Demonstrating FENOC'S Strong Safety Focus

Individual

Drive for
Excellence

Questioning
Attitudes

Rigorous Work
Control and
Prudent Approach

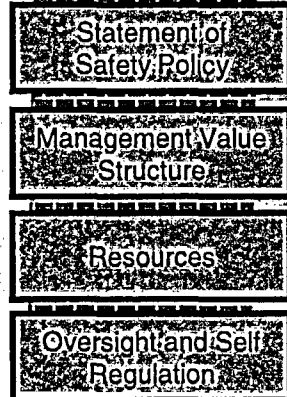
Open
Communications

Nuclear
Professionalism

- Nuclear Professionalism - Assessment Input
 - Completion of Ownership for Excellence
 - Training attendance
 - Rework
 - Individual Development Plans
 - Results of Engineering Assessment Board Assessments
 - Number of yellow windows in training
 - Absence of low-level Radiation Protection events
 - Chemistry Performance Index

Barriers Demonstrating FENOC'S Strong Safety Focus

Programs



- Policy Level Commitment - Completed
 - FirstEnergy Board Passed Resolution on Nuclear Safety
 - CEO - FirstEnergy Reinforced Safety Commitment
 - Policy Established on Safety Culture
 - Enhanced FENOC Values, Mission, and Vision
 - Business Plan Focus Areas on Safety
 - Board Strengthened Incentive Programs Tie to Safety
 - Implemented FENOC Corporate Organizational Structure Changes
 - Reviewed Resources for Adequacy
 - Established Independent Executive-Level Quality Assurance
 - Greatly Strengthened Employee Concerns Program
 - Established a SCWE Policy

Barriers Demonstrating FENOC'S Strong Safety Focus

Programs



- Policy Level Commitment - Completed
 - Established a safety policy and emphasis on a regular basis by senior management
 - Ad-Hoc surveys of employee awareness of safety policy
 - Oversight evaluation of SCWE and safety performance
 - Anchored in performance appraisal program
 - Assessed adequacy of resources during Restart Readiness Review

Management

Emphasis on Safety

Clear Responsibilities and Cohesiveness

Acceptance of Responsibility

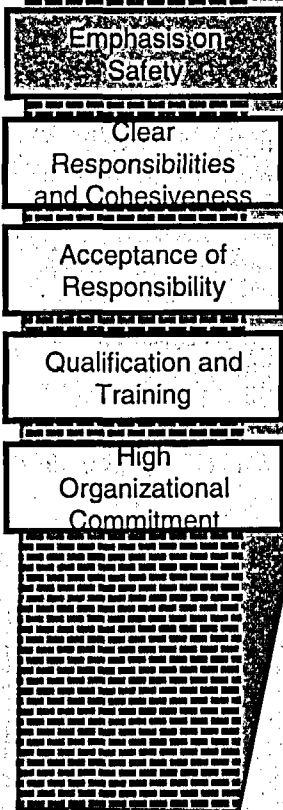
Qualification and Training

High Organizational Commitment

Barriers Demonstrating FENOC'S Strong Safety Focus

- Management Commitment - Completed
 - Improved Management Technical Competence
 - Strengthened Corrective Action Review Board
 - Established Engineering Assessment Board
 - Increased Manager Involvement in Safety-Related Work
 - Revised Competencies in Appraisal Process
 - Nuclear Professionalism and Safety Consciousness
 - Leadership in Action Training on Additional Competencies
 - Assigned Owners and New Expectations for Engineering and Programs
 - Established Strong Management Observation Program
 - Field and Training Observations
 - Established High Organizational Commitments
 - Programs Benchmarked to Industry's Best
 - Design Modifications to Improve Safety Margins
 - Improved Problem Solving and Decision-Making Procedure
 - Restart Review Meetings for Changes in Plant Modes
 - Lincoln Consulting Group Strategies and Activities to Increase Leadership, Teamwork and Alignment

Management



Barriers Demonstrating FENOC'S Strong Safety Focus

- Emphasis on Safety - Assessment Input
 - Implementation of Management Observation Program
 - Frequency of plant tours and questioning of observed conditions
 - Nuclear safety emphasized to employees on a regular basis
 - Completion of Leadership in Action and SCWE Training
 - Encouragement of employee questioning attitude on safety (e.g., newsletters, 4 C's Meetings)
 - Recognition of employees who improve safety
 - Application of NOP-ER-3001, Problem Solving and Decision Making
 - Program ownership (e.g., fuel reliability)
 - Modifications to improve margins (e.g., containment emergency sump)
 - Operator Recertification Program

Barriers Demonstrating FENOC'S Strong Safety Focus

Management

Emphasis on Safety

Clear Responsibilities and Cohesiveness

Acceptance of Responsibility

Qualification and Training

High Organizational Commitment

- Clear Responsibilities and Cohesiveness - Assessment Input
 - Personnel Error Rate
 - Demonstration of clear ownership of programs
 - Ad-Hoc surveys to pulse organization's understanding that nuclear safety is the highest priority
 - Corrective Action Review Board assessments of ownership
 - Engineering Assessment Board evaluations of ownership
 - Program ownership (e.g., Leak Rate Program, Boric Acid Control Program, Reactivity Management Program)

Management

Emphasis on
Safety

Clear
Responsibilities
and Cohesiveness

Acceptance of
Responsibility

Qualification and
Training

High
Organizational
Commitment

Barriers Demonstrating FENOC'S Strong Safety Focus

- Acceptance of Responsibility - Assessment Input
 - Performance Appraisals/Development Plans
 - Ad-Hoc surveys of willingness to challenge employees, other managers and superiors regarding safety considerations
 - System assessment as a means to increase safety margins, such as:
 - FLÜS-Leak Monitoring System
 - Containment Emergency Sump
 - Diesel Starting Air
 - Nuclear Quality Assurance Field Assessments
 - Number of Management Observations Requiring Coaching

Management

Emphasis on
Safety

Clear
Responsibilities
and Cohesiveness

Acceptance of
Responsibility

Qualification and
Training

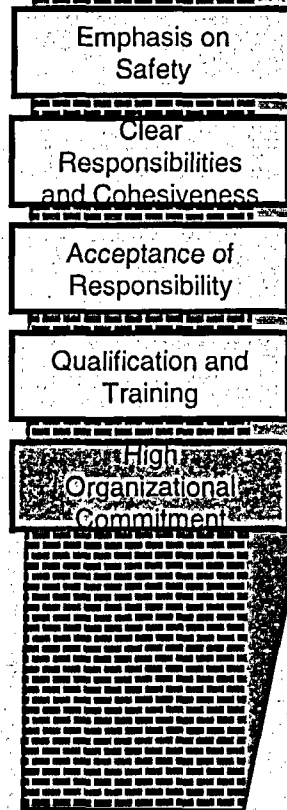
High
Organizational
Commitment

Barriers Demonstrating FENOC'S Strong Safety Focus

- Qualification and Training - Assessment Input
 - Benchmarking of organizational staffing
 - Restart required training
 - Root cause training completed (e.g., Tap Root)
 - Operability determination training (> 175 individuals)
 - Training on legal responsibilities of licensed operators
 - SCWE Training (>300 Individuals)
 - Standdown on January 27 on Safety Culture Policy
 - Training on NOP-ER-3001, Problem Solving and Decision-Making (e.g., Decay Heat Pump, Cavity Seal Post Mod Testing)
 - Training on Reactor Head Case Study
 - Training on Standards and Expectations
 - Training identified by Curriculum Review Committee meetings

Barriers Demonstrating FENOC'S Strong Safety Focus

Management



- High Organizational Commitment - Assessment Input
 - Implementation and training of employees on Safety Conscious Work Environment
 - Effective Employee Concern Program
 - Restart Oversight Panel Assessment
 - Licensed Operator Pipeline
 - Benchmark programs against industry standards
 - Operator crew benchmarking
 - Scheduled Management Observation Program
 - Goals for zero temporary modifications, zero control room deficiencies, and zero operator work arounds

Barriers Demonstrating FENOC'S Strong Safety Focus

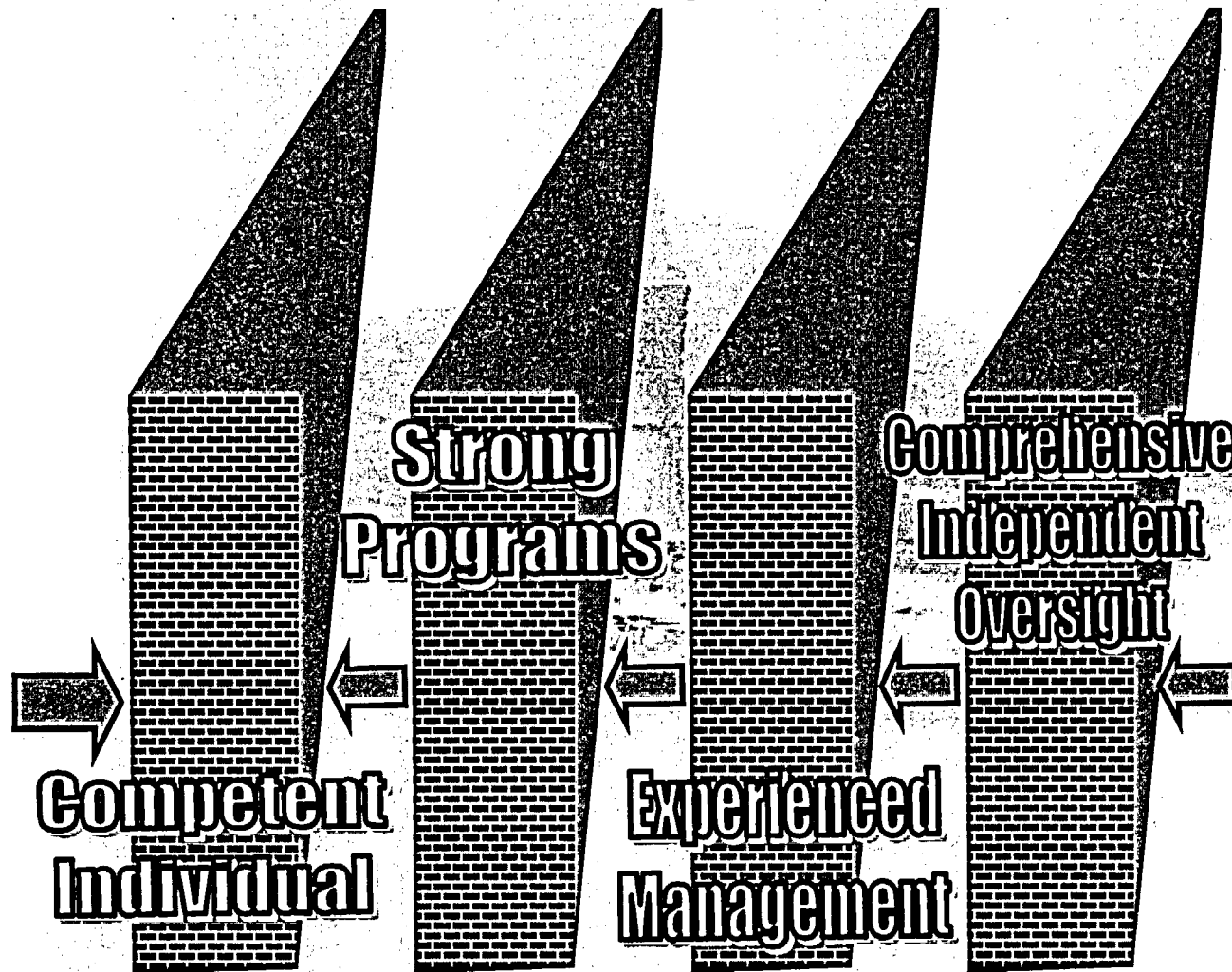
•Independent Oversight - Completed

- Enhanced Quality Assessment Organization
- Vice President Oversight
- CNRB Rechartered
- Nuclear Committee of the Board of Directors
- Quality Control Realignment
- Safety Conscious Work Environment Program
- Employee Concerns Program
- INPO Assist Visits
- Restart Overview Panel
- Quality Assurance Quarterly Assessment
- Safety Culture Assessment

**Independent
Oversight**

FirstEnergy® Barriers Demonstrating FENOC'S Strong Safety Focus

CHALLENGE



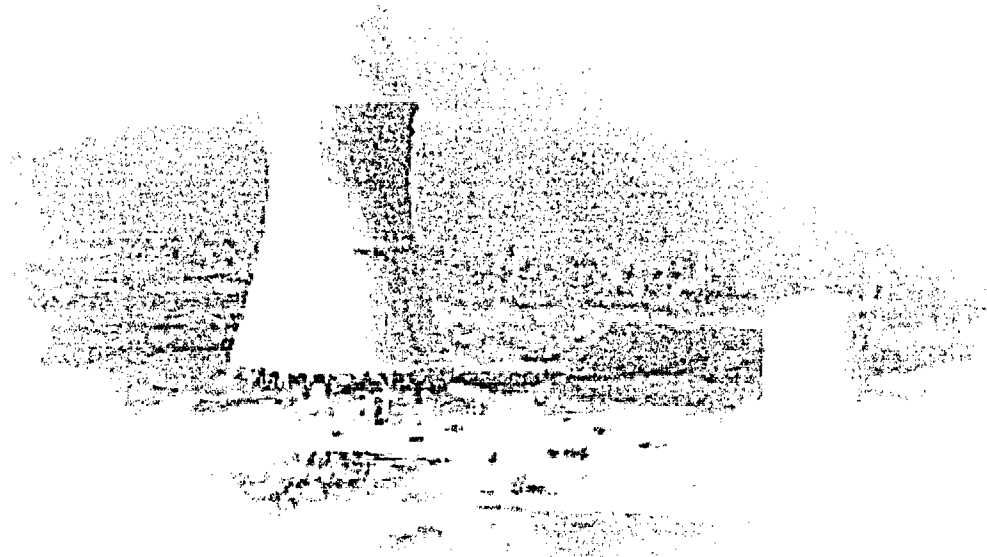
FENOC Vision:

'People with a strong safety focus delivering top fleet operating performance'

Seven Day NOP Test

- Challenges occurred during preparation and during Normal Operating Pressure (NOP) Test
 - Core Flood Tank Valve
 - Containment Spray Pump Breaker
 - Auxiliary Feedwater Fuses
 - Auxiliary Feedwater Pump No. 1 Testing
- Right level of attention
 - Each work activity stopped upon discovery of issue
 - Problem-Solving/Decision-Making Team assembled
 - Management attention focused on issue
 - Personnel and material issues resolved
- Completed NOP Test

Closing Comments



Lew Myers

Chief Operating Officer - FENOC

Gary Leidich

**President and Chief Nuclear
Officer - FENOC**